Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3191

PLASMA DISPLAY

PDP-504CMX PDP-50MXE1 PDP-50MXE1-S

VIDEO CARD

PDA-5003 PDA-5004

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-504CMX	LUC	AC100 - 120V	
PDP-50MXE1	LDFK	AC100 - 240V	
PDP-50MXE1-S	LDFK	AC100 - 240V	
PDA-5003	UCYV	-	
PDA-5004	UCYV	-	

This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PDP-504CMX, PDP-50MXE1 PDP-50MXE1-S PDA-5003, PDA-5004	ARP3192	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM





For details, refer to "Important symbols for good services".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2004

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components.

 Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.

 Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

PDP-504CMX

Leakage Current Cold Check

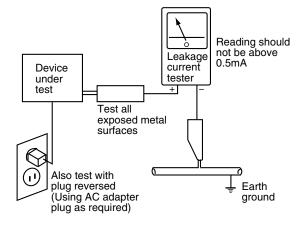
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. POWER SUPPLY Unit	(223V)
2. 50 X DRIVE Assy(-	230V to 223V)
3. 50 Y DRIVE Assy	(353V)
4. 50 SCAN A Assy	(353V)
5. 50 SCAN B Assy	(353V)
6. X CONNECTOR AAssy (-	230V to 223V)
7. X CONNECTOR B Assy (-	230V to 223V)

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

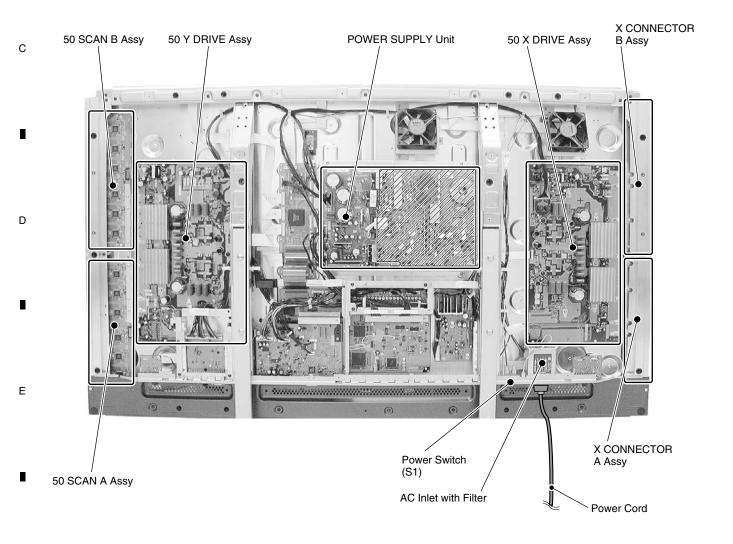


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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PDP-504CMX

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

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2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

5



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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■ PLASMA DISPLAY (PDP-504CMX, PDP-50MXE1, PDP-50MXE1-S)

General
Light emission panel 50 inch plasma AC display panel
109.8 (W) x 62.1 (H) x 126.1 (diagonal) cm
Number of pixels 1280 x 768
Power supply AC 100 - 120 V, 50/60 Hz (PDP-504CMX)
Power supply AC 100 - 240 V, 50/60 Hz (PDP-50MXE1)
(PDP-50MXE1-S)
Rated current
Rated current
(PDP-50MXE1-S)
Standby power consumption0.8 W (PDP-504CMX)
Standby power consumption1 W (PDP-50MXE1)
External dimension1218 (W) x 714 (H) x 98 (D) mm
47-31/32 (W) x 28-1/8 (H) x 3-7/8 (D) in.
(including display stand)
1218 (W) x 737 (H) x 300 (D) mm
47-31/32 (W) x 29-1/32 (H) x 11-13/16 (D) in.
Weight

Operating temperature range...... 0 to 40 °C Operating Humidity 20 to 80 %

Operating atmospheric pressure range 760 to 1100 hPa

Input/output Video

INPUT 1

[Input] Mini D-sub 15 pin (socket connector) RGB signal (G ON SYNC compatible) RGB ... 0.7 Vp-p/75 Ω /no sync. HD/VS, VD ... TTL level /positive and negative polarity $/2.2 k\Omega$ G ON SYNC

... 1 Vp-p/75 Ω /negative sync. *Compatible with Microsoft's Plug & Play (VESA DDC1/2B)

Output Mini D-sub 15 pin (socket connector) 75 Ω /with buffer

INPUT 2

Input DVI-D 24-pin connector Digital RGB signal (DVI compliant

> TMDS signal) *Compatible with Microsoft "Plug & Play" (VESA DDC 2B)

Audio

AUDIO INPUT (for INPUT 1) Input Stereo mini jack

 $L/R \dots 500 mV rms/more than 10 k\Omega$

AUDIO INPUT (for INPUT 2)

Stereo mini jack

 $L/R \dots 500 mV rms/more than 10 k\Omega$

Output **AUDIO OUTPUT**

Stereo mini jack

L/R ... 500mVrms (max)/less than 5 k Ω

SPEAKER

L/R ... 8 – 16 Ω /7W +7W (at 8 Ω)

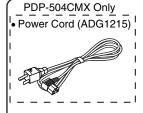
Control

RS-232CD-sub 9 pin (pin connector) COMBINATION IN/OUT..... Mini DIN 6 pin (x2)

Accessories	
Power cord	1 (PDP-504CMX Only)
Remote control unit	
Remote control unit holder	
AA (R6) batteries	2
Cleaning cloth (for screen)	1
Speed clamps	2
Bead bands	2
Warranty	1 (PDP-504CMX Only)
Operating Instructions	1
Display stands	2
Washers	2
Hex hole bolts (M8X40)	2
Ferrite core1 (PDP-50MXE	1, PDP-50MXE1-S Only)
Cable tie1 (PDP-50MXE	1, PDP-50MXE1-S Only)
•	•

Due to improvements, specifications and design are subject to change without notice.

Accessories



 Cleaning Cloth (for wiping front panel) (AED1208)

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 Remote Control Unit (AXD1486)

• Display Stand (×2) (AMR3264)





• Dry Cell Battery (R6P, AA)

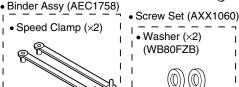
• Remote Control Unit Holder (AMR3268)



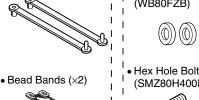


PDP-50MXE1, PDP-50MXE1-S

(ATX1039)



Only Ferrite Core



Hex Hole Bolts (×2) (SMZ80H400FZB)

.Cable Tie

PDP-504CMX

■ VIDEO CARD (PDA-5003, PDA-5004)

В

	(I DA-3000;	, I DA-3004)		
•	PDA-5003 General External dimension	ons 301.5 (W) x 27.6 (H) x 144 (D) mm	PDA-5004 General External dime	nsions 301.5 (W) x 27.6 (H) x 144 (D) mm
		11–7/8 (W) x 1-1/8 (H) x 5–11/16 (D) in.		11–7/8 (W) x 1-1/8 (H) x 5–11/16 (D) in.
		0.4 kg (14 oz) rature range 0 to 40 °C (32 to 104 °F)		0.4 kg (14 oz) operature range 0 to 40 °C (32 to 104 °F)
	Input/output Video		Input/output Video	
	INPUT 3		INPUT 3	
	(Input)	S terminal (Mini DIN 4 pin) • Y/C separate video signal Y 1 Vp-p/75 Ω/negative sync. C 0.286 Vp-p/75 Ω (NTSC) 0.3 Vp-p/75 Ω (PAL)	(Input)	S terminal (Mini DIN 4 pin) • Y/C separate video signal Y
		0.5 Vp-p/13 \$2 (1 AL)	INPUT 4	0.5 VP-P/15 22 (1 AL)
	INPUT 4 Input	BNC jack	(Input)	BNC jack • Composite video signal
		Composite video signal		1 Vp-p/75 Ω /negative sync.
	Output	1 Vp-p/75 Ω/negative sync. BNC jack	Output	BNC jack 75 Ω /with buffer
		75 Ω /with buffer		
•			INPUT 5	
	INPUT 5		(Input)	RCA connector
	(Input)	BNC jack (x5)		Component video signal
		RGB signal (G ON SYNC compatible) RGB 0.7 Vp-p/75 Ω /no sync. HD/VS, VD TTL level		Y1 Vp-p / 75 Ω negative sync. PB/CB, PR/CR 0.7 Vp-p (color 100%) / 75 Ω
		/positive and negative polarity/		• RGB signal (G ON SYNC)
		75 Ω or 2.2 k Ω		G ON SYNC 1Vp-p/75 Ω/negative sync.
		(impedance switch) G ON SYNC		R/B0.7 Vp-p/75 Ω /no sync.
		1 Vp-p/75 Ω /negative sync.	Audio	
)	Audio	ALIDIO INDUT (for INDUT 0/4)	Input	AUDIO INPUT (for INPUT 3) Pin jack (x2)
	(Input)	AUDIO INPUT (for INPUT 3/4) Pin jack (x2)		L/R 500mVrms/more than 10 k Ω
		L/R 500mVrms/more than 10 k Ω		AUDIO INPUT (for INPUT 4) Pin jack (x2)
		AUDIO INPUT (for INPUT 5)		L/R 500mVrms/more than 10 k Ω
		Pin jack (x2)		
		L/R 500mVrms/more than 10 kΩ		AUDIO INPUT (for INPUT 5) Pin jack (x2)
				L/R 500mVrms/more than 10 k Ω
		Accessories		
		Label for remote control u	ınit	1
		Connector indicator label.		
		Screws		
		Operating Instructions		
l		Warranty		I
		Due to improvements, specij change without notice.	fications and design	n are subject to

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•	Label	for	remote	control	unit
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PDA-5003 (AAX3051)

S-VIDEO VIDEO RGB (BNC)

PDA-5004

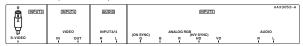
S-VIDEO VIDEO COMPONENT

• Connector indicator label

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PDA-5003 (AAX3053)

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PDA-5004 (AAX3054)



• Screws (x2)

(Accessory screws for installing video card) (AMZ30P060FZK)

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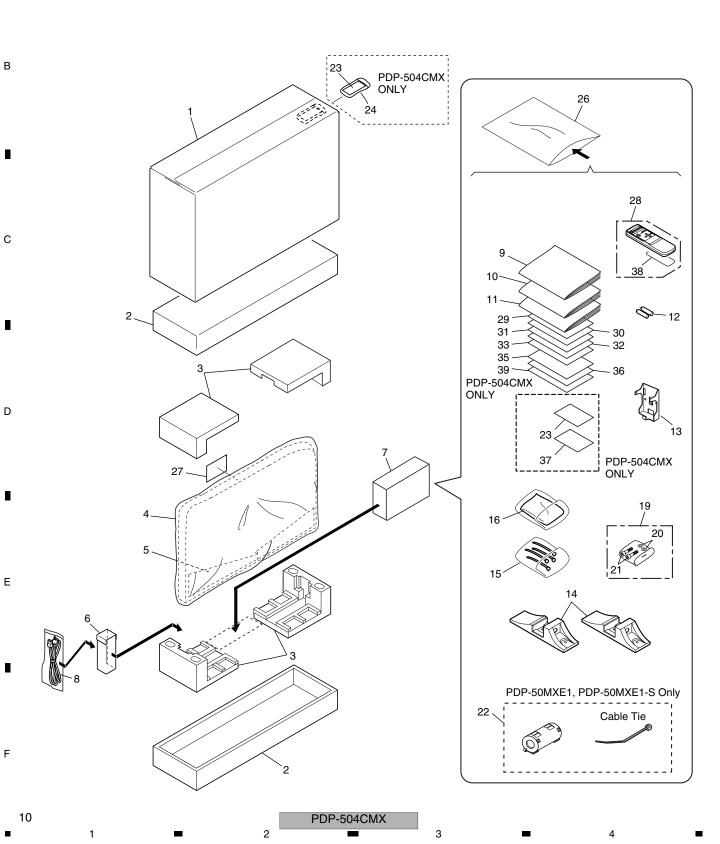
2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- Screws adjacent to **▼** mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING

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PACKING Parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	Upper Carton	See Contrast table(2)	22	Ferrite Core	See Contrast table(2)	
2	Under Carton	AHD3037	NSP 23	Warranty Card	See Contrast table(2)	Α
3	Pad	AHA2280	NSP 24	Vinyl Bag	See Contrast table(2)	
4	Mirror Mat	AHG1284	25	••••		
5	Front Sheet	AHB1241				
			26	Vinyl Bag	AHG1330	
6	Cord Case	AHC1037	27	Caution Sheet	ARM1201	
7	Accessory Case Assy	See Contrast table(2)	28	Remote Control Unit	AXD1486	
<u> </u>	AC Power Cord	See Contrast table(2)	29	Plasma Caution Sheet	ARM1145	
9	Operating Instructions (Italian/Spanish/Dutch/Chinese)	See Contrast table(2)	30	Plasma Caution Sheet	ARM1147	
10	Operating Instructions	See Contrast table(2)	31	Plasma Caution Sheet	ARM1149	
	(Japanese/English/French)		32	Caution Sheet	ARM1176	В
11	Operating Instructions	See Contrast table(2)	33	Caution Sheet	ARM1200	
	(English/French/German)		34	••••		
	,		35	Image Caution Sheet	ARM1220	
NSP 12	Battery (R6P, AA)	VEM1031				
13	Reomote Control Holder	AMR3268	36	Caution Sheet	ARM1221	
14	Display Stand	AMR3264	NSP 37	Warranty Card	See Contrast table(2)	-
15	Binder Assy	AEC1758	38	Battery Cover	AZN2462	
	(Speed Clamp x2, Bead Band x	(2)	39	Image Stick Caution	See Contrast table(2)	
16	Wiping Cloth (for screen)	AED1208				
17	••••					С
18	••••					
19	Screws Set	AXX1060				
20	Washer	WB80FZB				
21	Bolt	SMZ80H400FZB				

(2) CONTRAST TABLE PDP-504CMX/LUC, PDP-504MXE1/LDFK and PDP-504MXE1-S/LDFK are constructed the same except for the following:

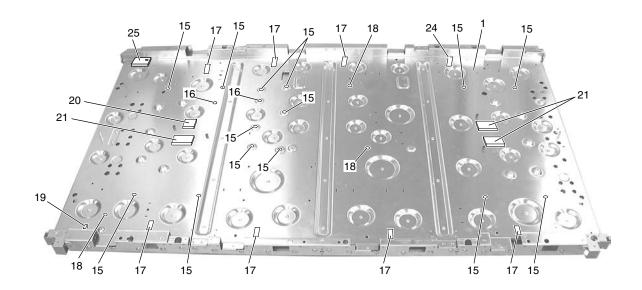
Mark	No.	Symbol and Description	PDP-504CMX/ LUC	PDP-504MXE1/ LDFK	PDP-504MXE1-S/ LDFK
	1	Upper Carton (504CMX)	AHD3216	Not used	Not used
	1	Upper Carton (50MXE1)	Not used	AHD3218	Not used
	1	Upper Carton (50MXE1-S)	Not used	Not used	AHD3219
NSP	7	Accessory Case Assy (CMX)	AXX1065	Not used	Not used
NSP	7	Accessory Case Assy (MXE)	Not used	AXX1066	AXX1066
<u> </u>	8	AC Power Cord	ADG1215	Not used	Not used
	9	Operating Instructions (Italian/Spanish/Dutch/Chinese)	Not used	ARC1527	ARC1527
	10		ARD1055	Not used	Not used
	11	Operating Instructions (English/French/German)	Not used	ARE1377	ARE1377
	22	Ferrite Core	Not used	ATX1039	ATX1039
NSP	23	Warranty Card	ARY1093	Not used	Not used
NSP	24	Vinyl Bag	AHG-195	Not used	Not used
NSP	37	Warranty Card	ARY1146	Not used	Not used
	39	Image Stick Caution	ARM1240	Not used	Not used

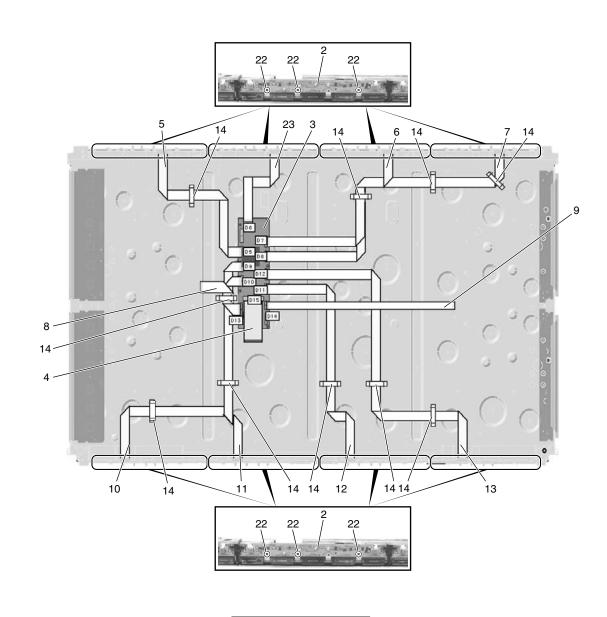
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2.2 CHASSIS SECTION (1)





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PDP-504CMX

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Mark No.	<u>Description</u>	Part No.
NSP 1	P. Chassis (50) Assy	AWU1081
NSP 2	50 ADDRESS Assy	AWZ6839
3	DIGITAL VIDEO Assy	AWV2100
4	FPC (114P)	ADY1081
5	Flexible Cable (J201)	ADD1248
6	Flexible Cable (J203)	ADD1250
7	Flexible Cable (J204)	ADD1251
8	Flexible Cable (J209)	ADD1236
9	Flexible Cable (J210)	ADD1237
10	Flexible Cable (J205)	ADD1252
11	Flexible Cable (J206)	ADD1253
12	Flexible Cable (J207)	ADD1254
13	Flexible Cable (J208)	ADD1255
14	Flat Clamp	AEC1879
15	PCB Spacer	AEC1941
16	PCB Support	AEC1938
17	Wire Saddle	AEC1745
18	PCB Spacer	AEC1947
19	Wire Clip	AEC1948
20	Drive Silicone Sheet C	AEH1066
21	Drive Silicone Sheet B	AEH1065
22	Screw	VBB30P080FN
23	Flexible Cable (J202)	ADD1249
24	Wire Clip	AEC1992
25	Siricon Sheet SC	AEH1076

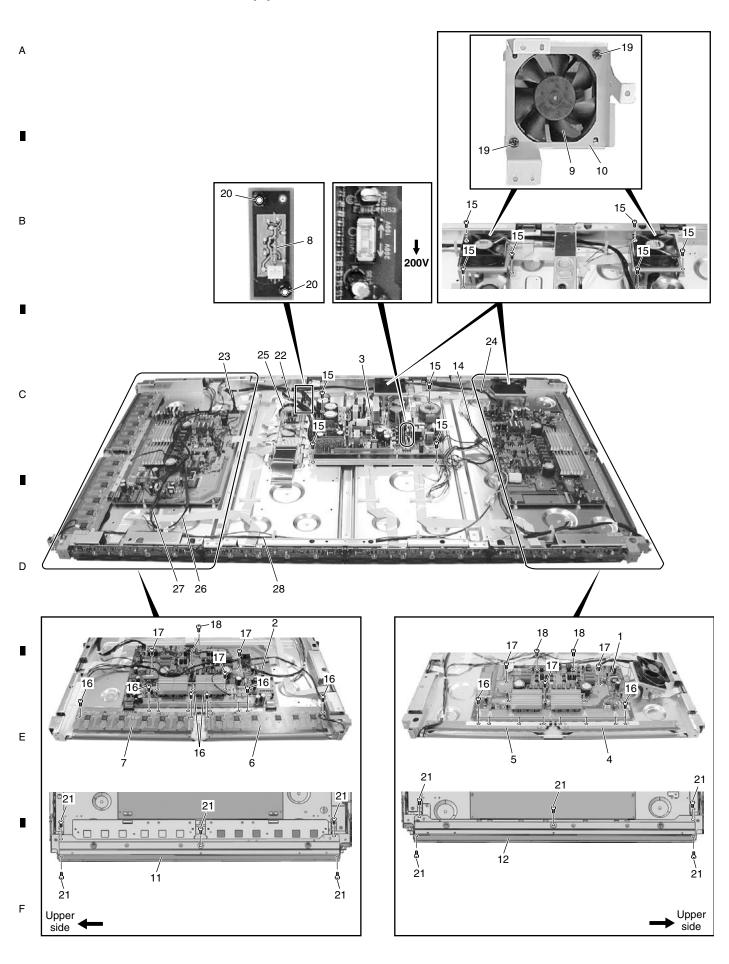
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PDP-504CMX

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2.3 CHASSIS SECTION (2)



PDP-504CMX

	o ocorioit (2) parts ci	31
Mark No.	<u>Description</u>	Part No.
1	50 X DRIVE Assy	AWZ6808
2	50 Y DRIVE Assy	AWV2035
⚠ 3	POWER SUPPLY Unit	AXY1083
NSP 4	X CONNECTOR B Assy	AWZ6811
NSP 5	X CONNECTOR A Assy	AWZ6812
NSP 6	50 SCAN A Assy	AWZ6809
NSP 7	50 SCAN B Assy	AWZ6810
8	PANEL SENSOR Assy	AWZ6795
9	Fan Motor (80 x 25)	AXM1044
10	Fan Angle	ANG2609
11	F. Chassis VL (50M)	ANA1753
12	F. Chassis VR (50M)	ANA1754
13	••••	
14	Housing Wire (J117)	ADX2897
15	Screw	ABZ30P060FMC
16	Screw	PMB30P060FNI
17	Screw	VBB30P080FNI
18	Screw	PMB40P080FZK
19	Screw	PPZ50P100FZK
20	Nylon Rivet	AEC1671
21	Screw	AMZ30P060FZK
22	3P Housing Wire (J109)	ADX2847
23	11P Housing Wire (J102)	ADX2853
24	12P Housing Wire (J103)	ADX2854
25	Wire A (J101)	ADX2839
26	WireD (J118)	ADX2898
27	- ()	ADX2909
28	9P Housing Wire (J115)	ADX2895

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PDP-504CMX

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FRAME SECTION parts List Mark No. Description Part No.	
Mark No. Description Part No.	
1 IR RECEIVE Assy AWZ6855	
2 KEY CONTROL Assy AWZ6853	Α
3 LED OPT Assy AWZ6854	
4 Sub Frame L Assy (50M) ANG2596	
5 Sub Frame R Assy (50M) ANG2598	
NSP 6 Front Chassis H (50) ANA1733	_
7 Front Spacer (CMX) AMR3384	•
8 Rear Frame (50M) ANG2602	
9 Wire Clip AEC1948	
10 Wire Clip AEC1992	
11 Wire Saddle AEC1745	В
NSP 12 IR Holder ANG2551	
13 Nylon Rivet AEC1671	
14 Flat Clamp AEC1879	
15 Enclosure Sheet 1 AMR3405	
16 Screw AMZ30P080FMC	
17 Screw AMZ30P060FZK	
18 Screw APZ30P080FZK	
19 Screw ABZ30P060FMC	
20 Nylon Rivet AEC1997	С
21 Screw BBZ30P050FMC	
22 Enclosure Sheet 2 (V) AMR3411	
23 Enclosure Sheet 3 AMR3407	

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PDP-504CMX

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MULTI BASE SECTION parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	AUDIO AMP Assy	AWZ6848	18	10/11P Housing Wire (J110)	ADX2890	
2	RGB Assy	AWZ6883	19	10P Housing Wire (J113)	ADX2908	Α
3	VIDEO SLOT I/F Assy	See Contrast table(2)	20	12P Housing Wire (J112)	ADX2892	
4	AV I/O Assy	See Contrast table(2)				
5	AV I/O I/F Assy	AWZ6859	21	13P/6P Housing Wire (J104)	ADX2910	
			22	COVER Assy	AWZ6858	
NSP 6	Multi Base (CMX)	ANA1757	23	Guide Rail EX	AEC1994	_
NSP 7	PCB Holder	AEC1088	24	Slot Stay	ANG2608	
8	PCB Spacer	AEC1991	25	Wire Saddle	AEC1745	
9	Gasket C-M	ANK1737				
10	Locking Card Spacer	AEC1429	26	11P Housing Wire (J111)	ADX2891	
			27	Flat Clamp	AEC1879	
11	Ground Finger	ANG2468	28	Screw	AMZ30P060FZK	В
12	Clamp	AEC1884	29	Screw	PMB30P060FNI	
13	Wire Saddle	AEC1989	30	Screw	VBB30P080FNI	
14	Mini Clamp	AEC1971				
15	Double Locking Spacer	AEC1988	31	Pin Grommet	AEC1015	
			32	Video Stay	ANG2607	
16	15P/16P Housing Wire (J106)	ADX2907	33	Gasket M-T	ANK1738	
17	Cable Clamp	AEC1707				

(2) CONTRAST TABLE PDP-504CMX/LUC, PDP-504MXE1/LDFK and PDP-504MXE1-S/LDFK are constructed the same except for the following:

	Mark	No.	Symbol and Description	PDP-504CMX/ LUC	PDP-504MXE1/ LDFK	PDP-504MXE1-S/ LDFK
Ī		3	VIDEO SLOT I/F Assy	AWZ6851	AWZ6901	AWZ6901
		4	AV I/O Assv	AWZ6847	AWZ6893	AWZ6893

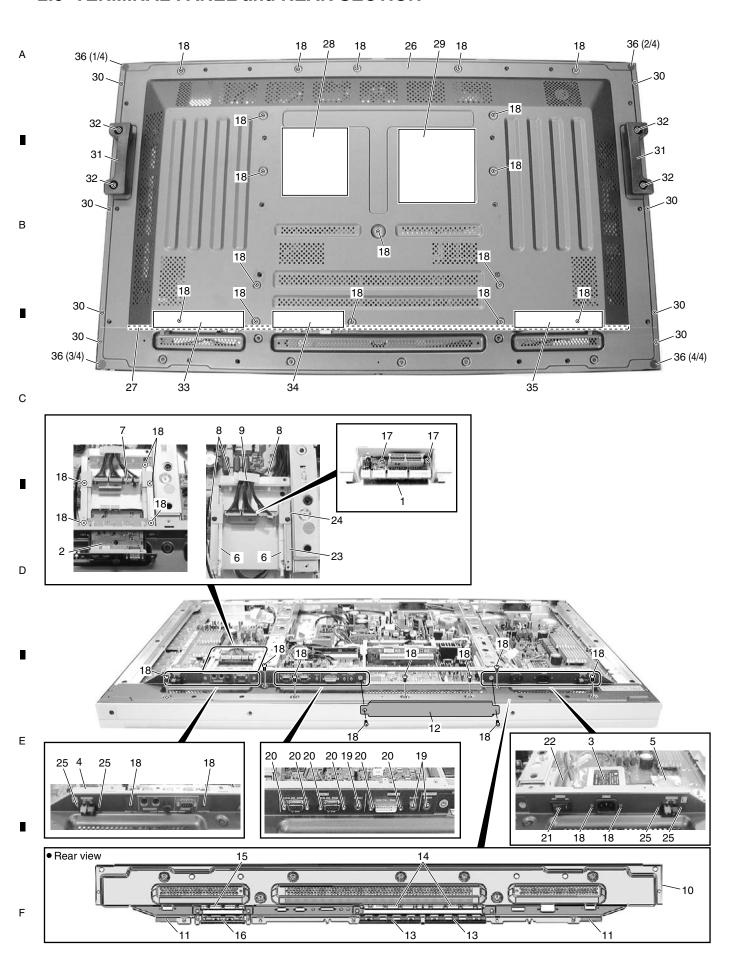
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PDP-504CMX

2.6 TERMINAL PANEL and REAR SECTION



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PDP-504CMX

TERMINAL PANEL and REAR SECTION parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	COMM SLOT I/F Assy	AWZ6850	20	Hexagon Head Screw	BBA1051	
2	COMM SLOT Assy	AWZ6849				Α
<u> </u>	AC Inlet (CN1)	AKP1255	<u> </u>	Power Switch (S1)	ASG1094	
4	SP TERMINAL R Assy	See Contrast table(2)	22	Housing Wire (MX)(J116)	ADX2896	
5	SP TERMINAL L Assy	AWZ6856	23	COMM Stay A	ANG2605	
			24	COMM Stay B	ANG2606	
6	Guide Rail EX	AEC1994	25	Screw	APZ30P060FZK	_
7	6P Housing Wire (J108)	ADX2889				
8	Wire Saddle	AEC1745	26	Rear Case (50M)	ANE1623	
9	Clamp	AEC1884	27	Gasket T-R50	ANK1735	
10	Terminal Panel (504CMX)	ANG2603	NSP 28	Name Label	See Contrast table(2)	
			29	Caution Label	AAX3048	
11	Gasket SP-T	ANK1734	30	Screw	TBZ40P080FZK	В
12	Slot Panel 262 (N)	ANG2610				
13	Slot Spring B126	ABK1033	31	Grip	AMR3380	
14	Slot Spring T130	ABK1032	32	Screw	HMB50P140FZK	
15	Slot Spring T94	ABK1034	33	Terminal Label R (50M2)	AAX3063	
			34	Terminal Label C (M)	AAX3064	
16	Slot Spring B92	ABK1035	35	Terminal Label L	See Contrast table(2)	-
17	Screw	VBB30P080FNI				
18	Screw	AMZ30P060FZK	36	Rear Corner Label (15)	AAX3081	
19	Nut	ABN1040				

(2) CONTRAST TABLE

PDP-504CMX/LUC, PDP-504MXE1/LDFK and PDP-504MXE1-S/LDFK are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-504CMX/ LUC	PDP-504MXE1/ LDFK	PDP-504MXE1-S/ LDFK
	4	SP TERMINAL R Assy	AWZ6857	AWZ6896	AWZ6896
NSP	28	Name Label (504CMX)	AAL2516	Not used	Not used
NSP	28	Name Label (50MXE1)	Not used	AAL2517	Not used
NSP	28	Name Label (50MXE1-S)	Not used	Not used	AAL2519
	35	Terminal Label L (50M)	AAX3061	Not used	Not used
	35	Terminal Label L (MXE)	Not used	AAX3065	AAX3065

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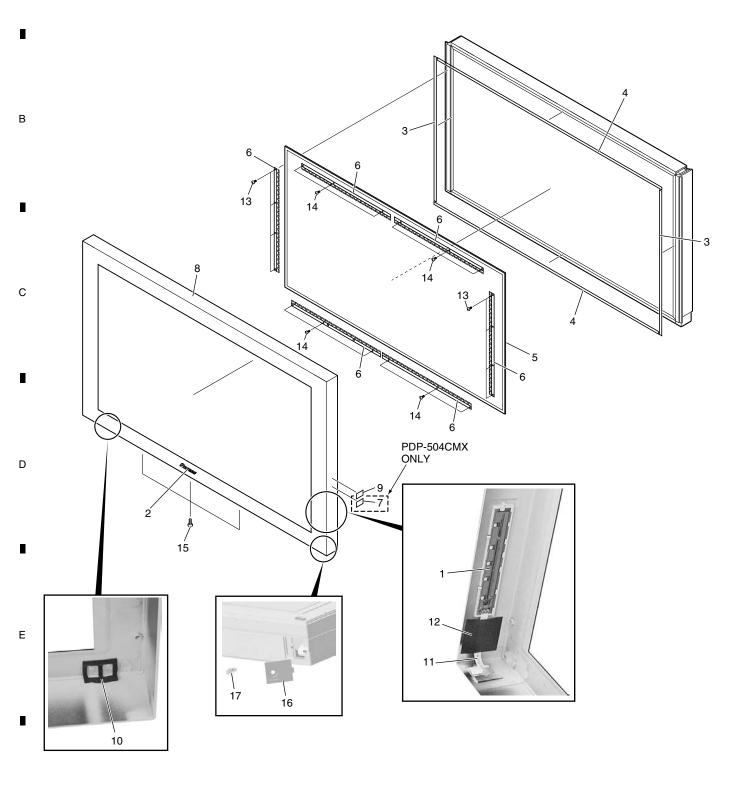
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FRONT SECTION parts List

Mark N	<u> 10.</u>	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
	1	SIDE KEY Assy	AWZ6852				
	2	PIONEER Badge	AAM1101	11	Flexible Cable (J211)	ADD1256	Α
	3	Panel Cushion V	AED1199	12	Flexible Seal	AEH1074	
	4	Panel Cushion H	AED1226	13	Screw	ABZ30P060FMC	
<u> </u>	5	Protect Panel Assy (50)	AMR3348	14	Screw	APZ30P080FZK	
		, ,		15	Screw	APZ30P120FZK	
NSP	6	Panel Holder (50)	ANG2563				
	7	Display Label	See Contrast table(2)	16	Lead Cover	See Contrast table(2)	•
	8	Front Case	See Contrast table(2)	17	Rivet	AEC1877	
	9	Energy Star Label	See Contrast table(2)				
	10	Blind Cushion	AEB1400				

(2) CONTRAST TABLE

PDP-504CMX/LUC, PDP-504MXE1/LDFK and PDP-504MXE1-S/LDFK are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-504CMX/ LUC	PDP-504MXE1/ LDFK	PDP-504MXE1-S/ LDFK
	7	Display Label	AXX2836	Not used	Not used
	8	Front Case 504 (CMX)	AMB2788	AMB2788	Not used
	8	Front Case 504S (CMX)	Not used	Not used	AMB2797
	9	Energy Star Label	AAX2856	AAX2856	AAX2865
	16	Lead Cover (4G)	AMR3394	AMR3394	Not used
	16	Lead Cover S (4G)	Not used	Not used	AMR3395

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2.8 PANEL CHASSIS (50) ASSY (AWU1081) Panel Chassis (50) Assy (AWU1081)

• Parts List

Α	Mark No.	<u>Description</u>	Part No.
	NSP	150 ADDRESS Assy	AWV2069
	NSP	250 ADDRESS Assy	AWZ6839
	NSP	150 SCAN FUKUGO Assy	AWV2036
	NSP	250 SCAN A Assy	AWZ6809
	NSP	250 SCAN B Assy	AWZ6810
	NSP	2X CONNECTOR A Assy	AWZ6811
	NSP	2X CONNECTOR B Assy	AWZ6812
	NSP	Address Module (IC1-IC40)	AXF1116
В	NSP	Plasma Panel Assy (50")(V1)	AAV1244
	NSP	FPC (50XGA-X)	ADY1084
	NSP	FPC (50XGA-Y)	ADY1085
	NSP	Chassis Assy (50)	ANA1774
		Edge Card Spacer	AEC1998
-		PCB Spacer	AEC1944
		PCB Support	AEC1958
		Rivet	AMR1066
		FC Spacer	AMR3370
С		Adhesive	ZBA-KE3424G
	NSP	Cleaner	ZLX-AP7
	NSP	Tape	ZTA-8101-12
	NSP	Double Faced Tape	ZTB-5015-18
	NSP	Tape	ZTC-POLYCA-11
	NSP	Tape	ZTC-POLYCA-20
	NSP	Tape	ZTB-5015-9
	NSP	Tape	ZTC-900UL-15
	NSP	Silicone Rubber	ZTX-HC20-15
D	NSP	Wiping Cloth	ZTX-MX100-13
	NSP	Film	ZTX-2102Y35-2R5
	NSP	Film	ZTX-2102Y45-5
	NSP	Silicone Rubber	ZTX-HC50-15
	NSP	Silicone Rubber	ZTC-EM7KBOR85T-15W

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PDP-504CMX

2.9 PDP SERVICE ASSY (AWU1095) PDP SERVICE Assy (AWU1095)

• Parts List

Mark No.	Description	Part No.
NSP	P. Chassis (50) Assy	AWU1081
NSP	Front Chassis H (50)	ANA1733
	F. Chassis VL (50M)	ANA1753
	F. Chassis VR (50M)	ANA1754
	Sub Frame L Assy (50M)	ANG2596
	Sub Frame R Assy (50M)	ANG2598
	Rear Frame (50M)	ANG2602
NSP	SVC.Terminal P504CMX	ANG2680
	Wire Saddle	AEC1745
	PCB Support	AEC1938
	PCB Spacer	AEC1941
	PCB Spacer	AEC1947
	Wire Clip	AEC1948
	Panel Cushion V	AED1199
	Panel Cushion H	AED1226
	Front Spacer (CMX)	AMR3384
	Wire Clip	AEC1992
	Enclosure Sheet 1	AMR3405
	Enclosure Sheet 2 (V)	AMR3411
	Caution Label	AAX3031
NSP	Drive Voltage Label	ARW1097
	Screw	AMZ30P060FZK
	Screw	AMZ30P080FM0
	Screw	APZ30P080FZK
	Screw	APZ30P120FZK
	Screw	TBZ40P080FZK
	Screw	VBB30P080FNI
NSP	Front Case (504CMX SVC)	AMB2839
	Rear Case (50M)	ANE1623
	Pad	AHA2280
	Under Carton	AHD3037
NSP	Upper Carton 504CMX S	AHD3256
	Protect Sheet	AHG1331
	Siricon Sheet SC	AEH1076

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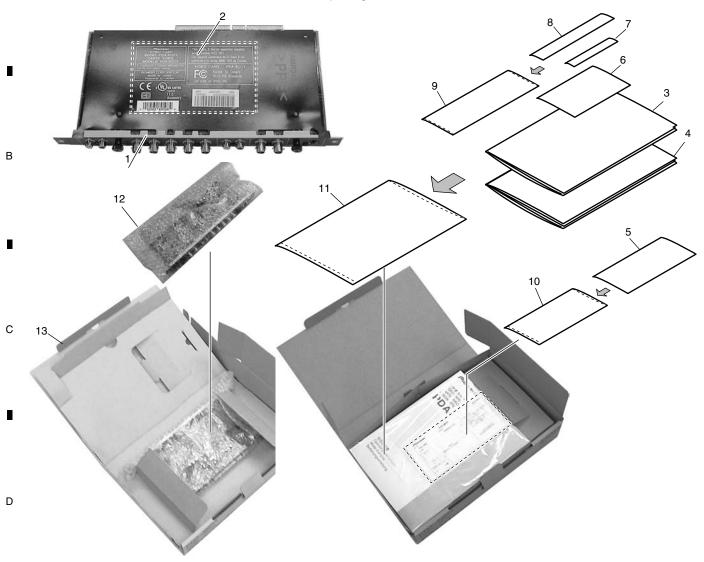
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2.10 VIDEO CARD

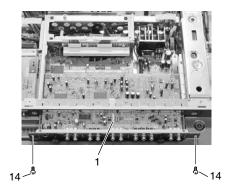
Packing

Photos and illustrations are the PDA-5003, however the packing method of the PDA-5004 is the same as the PDA-5003.

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• Exterior



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PDP-504CMX

VIDEO CARD parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	VIDEO SLOT 1 Assy	See Contrast table(2)	8	Terminal Label	See Contrast table(2)	
NSP 2	Name Label	See Contrast table(2)	NSP 9	Vinyl Bag	AHG-064	F
3	Operating Instructions	ARC1528				
	(Italian/Spanish/Dutch/Chinese))	NSP 10	Vinyl Bag	AHG-195	
4	Operating Instructions	ARD1056	11	Vinyl Bag	AHG1310	
	(Japanese/English/French/Gern	nan)	12	Sheet	AHG1344	
			13	Packing Case	See Contrast table(2)	_
NSP 5	Warranty Card	ARY1093	14	Screw	AMZ30P060FZK	I
NSP 6	Warranty Card	ARY1137				

(2) CONTRAST TABLE

Label

PDA-5003/UCYV and PDA-5004/UCYV are constructed the same except for the following:

Mark	No.	Symbol and Description	PDA-5003/ UCYV	PDA-5004/ UCYV
	1	VIDEO SLOT 1 Assy	AWV2097	Not used
	1	VIDEO SLOT 2 Assy	Not used	AWV2098
NSP	2	Name Label (5003)	AAL2520	Not used
NSP	2	Name Label (5004)	Not used	AAL2521
	8	Terminal Label (5003)	AAX3053	Not used
	8	Terminal Label (5004)	Not used	AAX3054
	13	Packing Case	AHD3220	AHD3221

AAX3051

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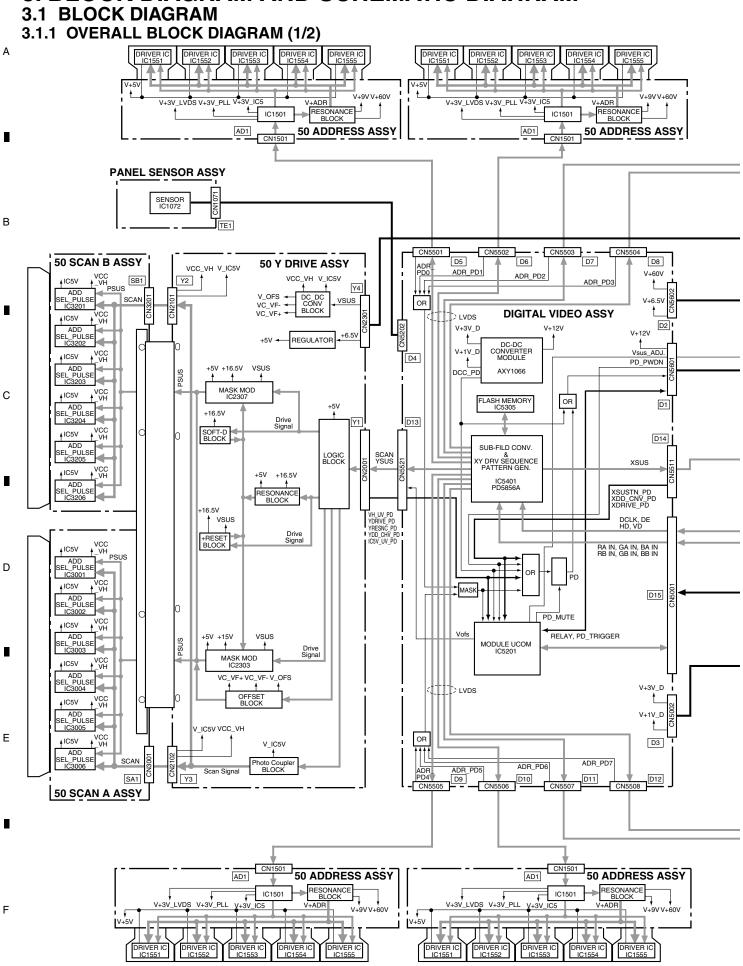
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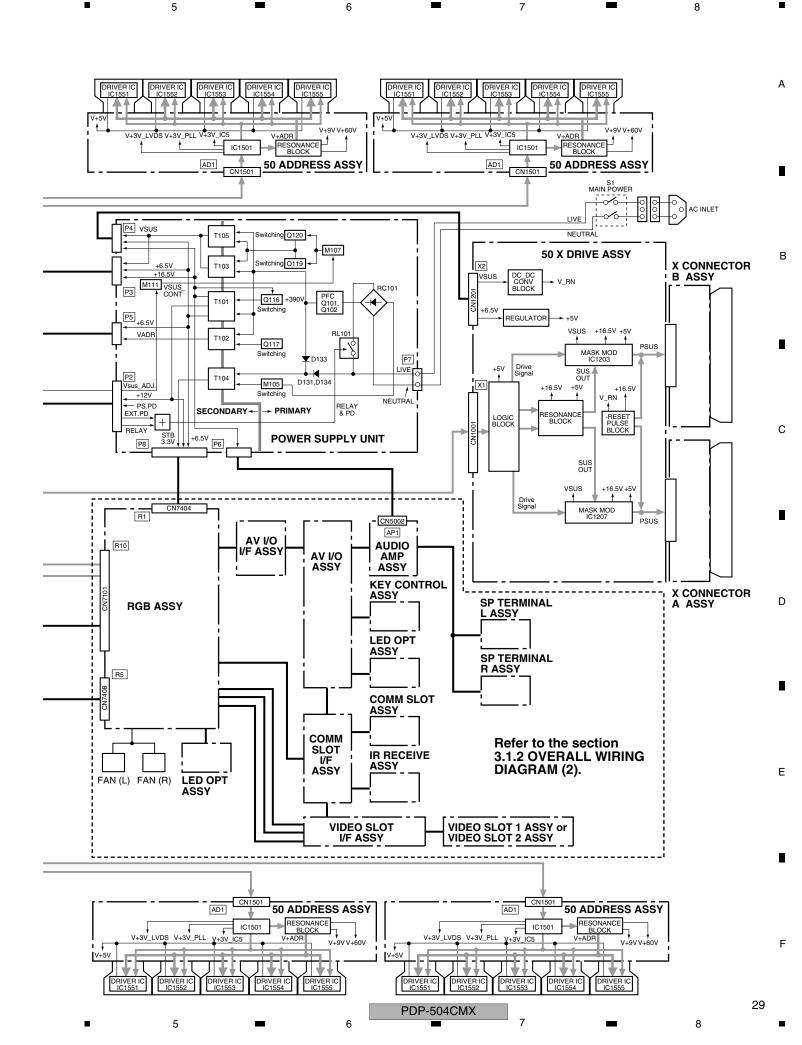
3. BLOCK DIAGRAM AND SCHEMATIC DIAHRAM



PDP-504CMX

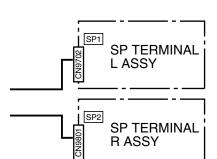
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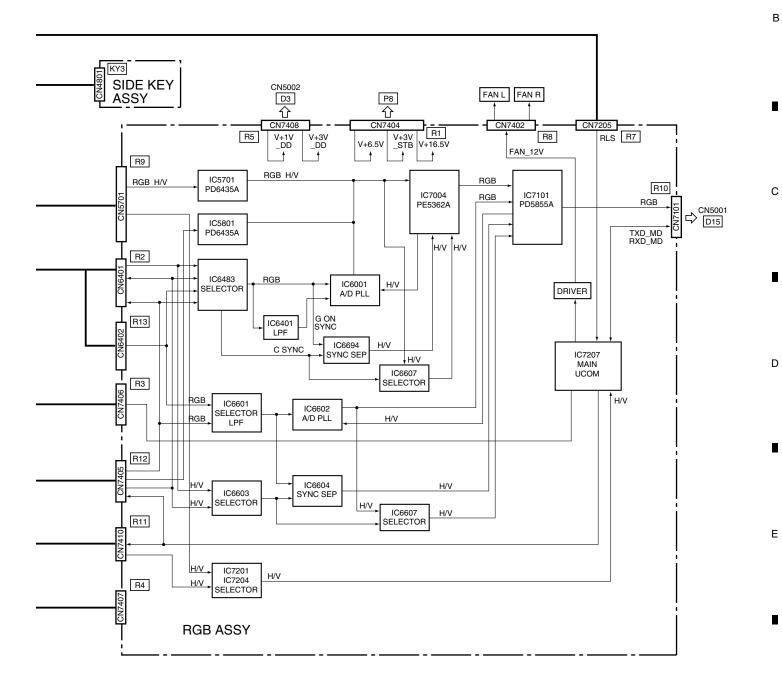
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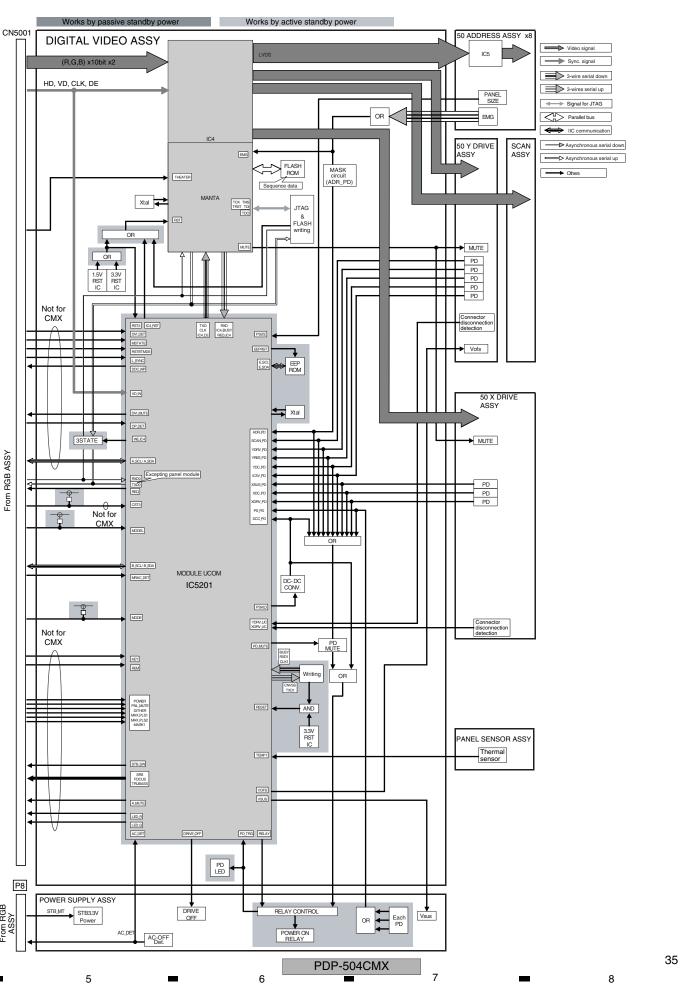
Α 50 X DRIVE ASSY X1 XSUS-G XSUS-G From DIGITAL VIDEO ASSY To X CONNECTOR ASSY XSUS-B XSUS-U2 XSUS IC1101 ______ L1102 1 Mask Module XSUS-D2 XSUS-U1 VSUS PSUS IC1203 STK795-512 HB DRIVER 5V · XSUS-D1 SUS GND XSUS-MSK XSUS-D2 16.5V XCP-MSK IC1102 _____ L1104 (1) XSUS-U1 XNR-D XSUS_PD HB DRIVER 5V В ______ L1105 9 Mask Module XDD_PD vsus XSUS-D1 SUS GND XDRV_PD IC1207 STK795-512 XSUS P.D. Circuit 5V -16.5V Charge Pump Circuit VCP IC1202 Photo Coupler XSUS-MSK XNR P.D. DET. X2 CN1201 From POWER SUPPLY UNIT 16.5V IC1204 DGND P.D. DET. XNR-D 6.5V DGND IC1205 N.C. REGULATOR N.C. VSUS D VSUS vsus N.C. VRN OVP P.D. SUSGND D-D CONV. T1401 VRN-230V SUSGND N.C. VRN UVP P.D.

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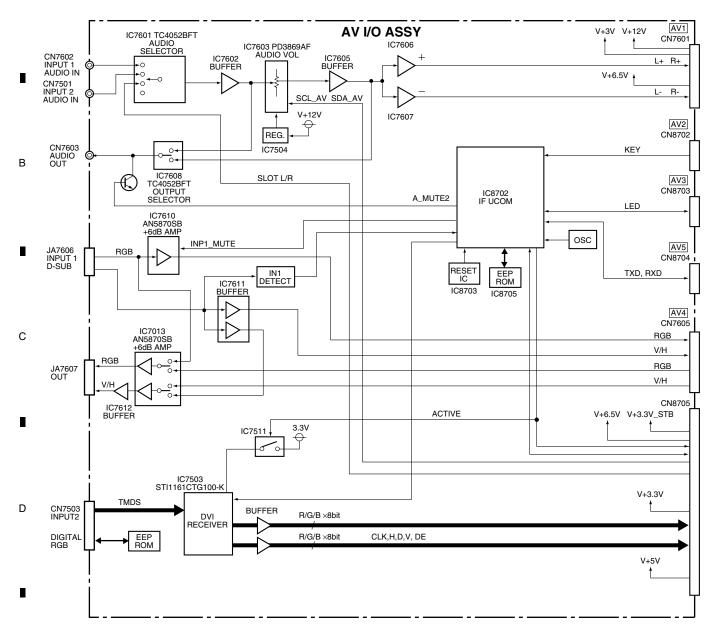
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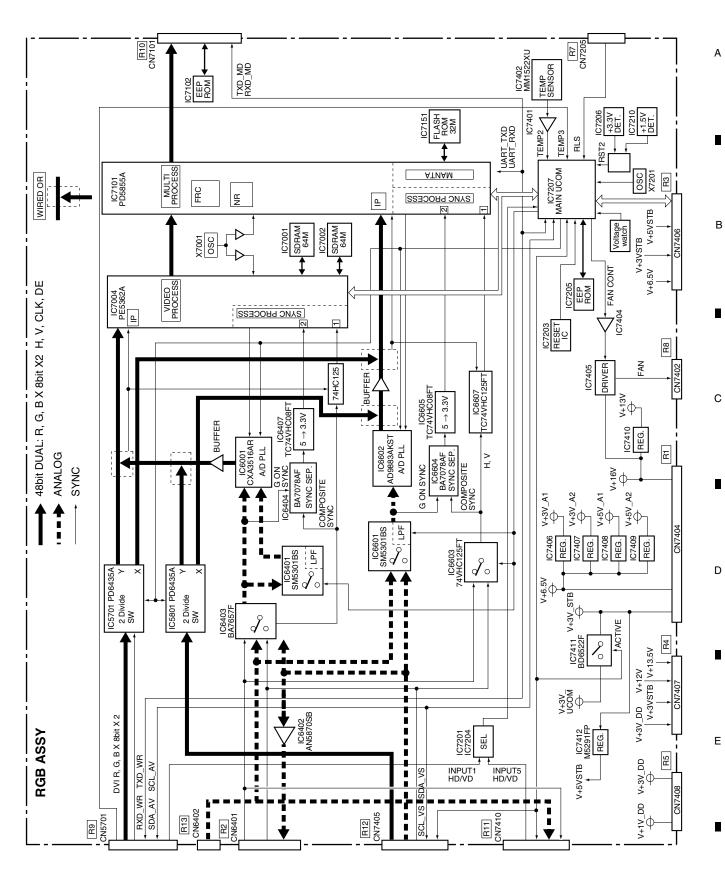
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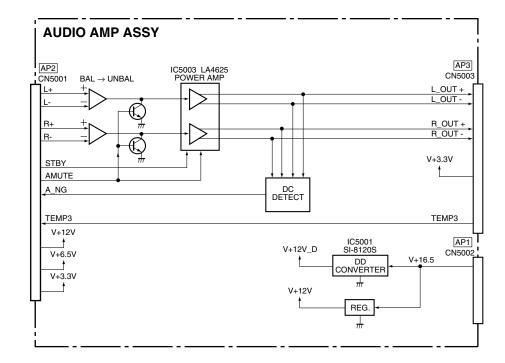
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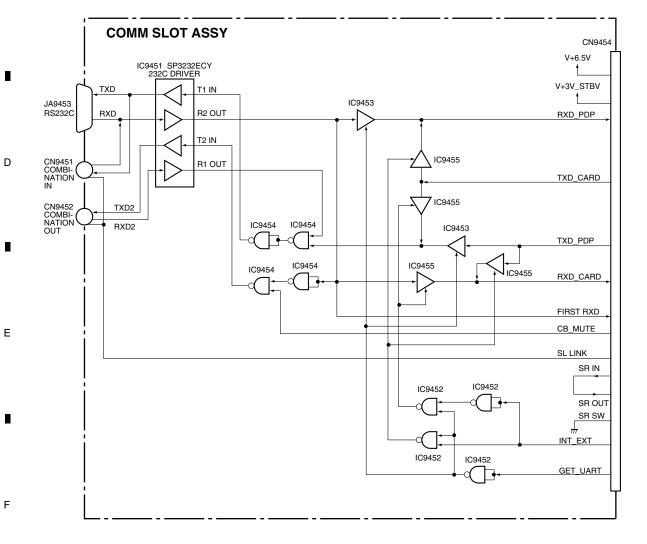
PDP-504CMX

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PDP-504CMX

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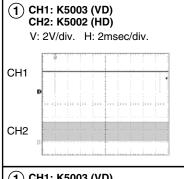
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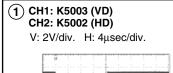
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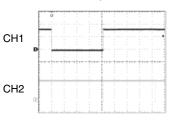
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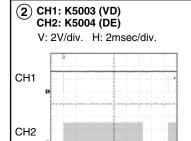
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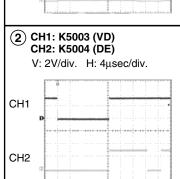
DIGITAL VIDEO ASSY (4/6) • DIGITAL I/F BLOCK

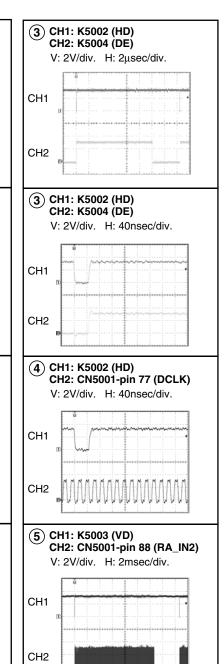












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PDP-504CMX

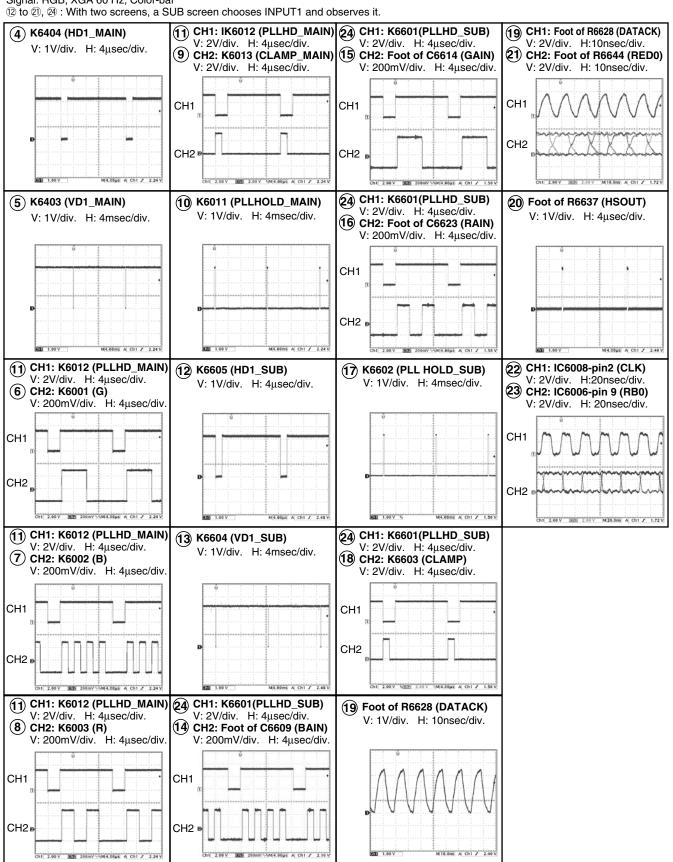
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RGB ASSY (2/10, 3/10, 4/10) MAUN AD BLOCK, MAIN LPF BLOCK, SUS LPF&AD BLOCK

Input: INPUT 1

Signal: RGB, XGA 60 Hz, Color-bar

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В

VIDEO SLOT1 ASSY (1/4), VIDEO SLOT2 ASSY (1/4) • IC1(CVBS) BLOCK

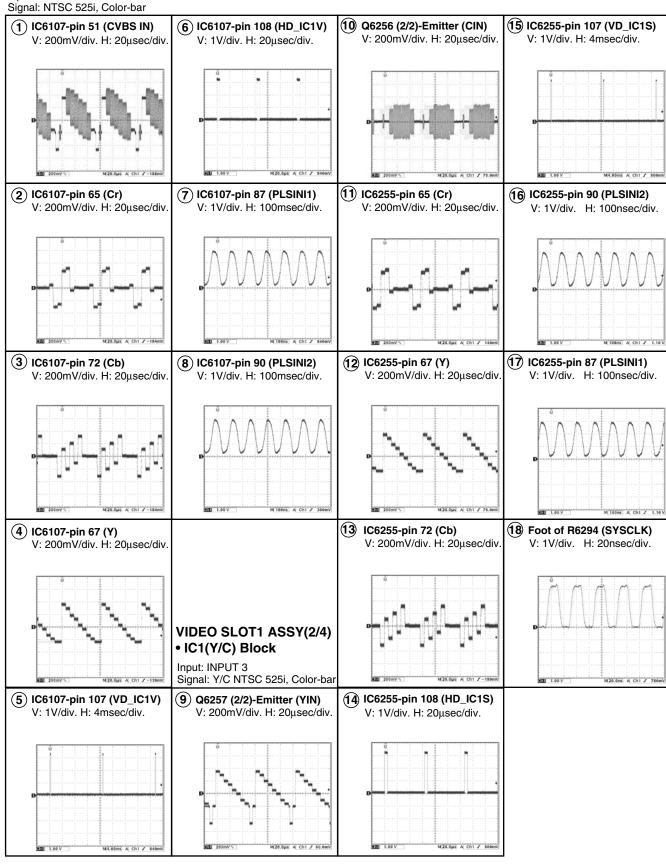
Input: INPUT 4

В

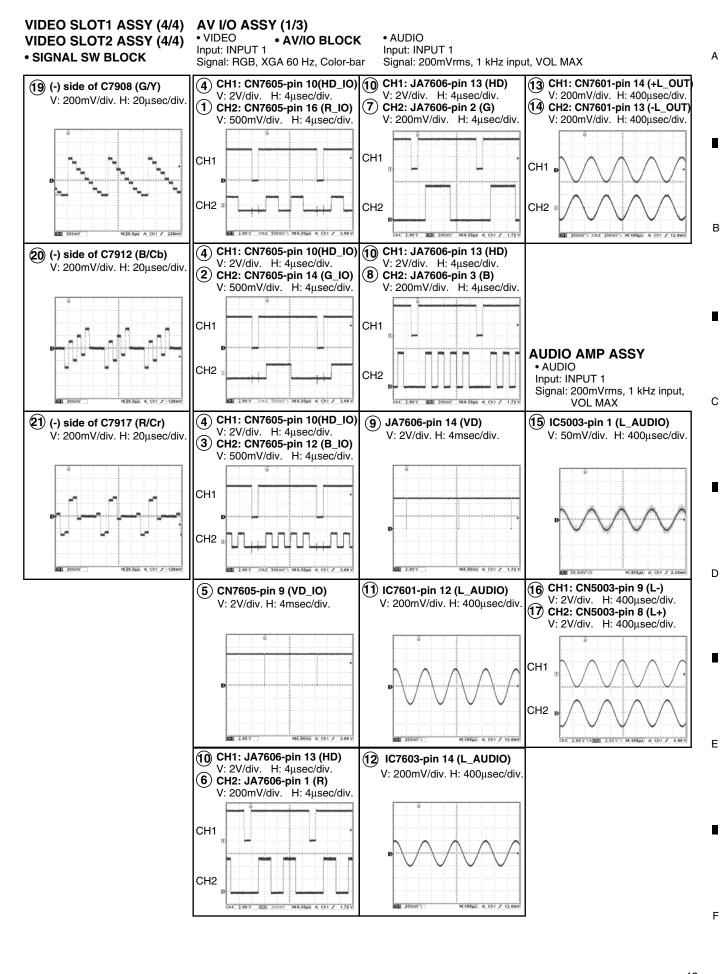
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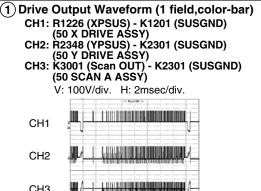


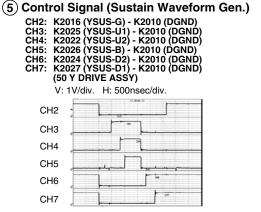
PDP-504CMX

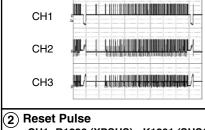


50 X DRIVE ASSY, 50 Y DRIVE ASSY and 50 SCAN A ASSY

50 X SUS BLOCK, 50 Y LOGIC BLOCK, 50 Y SUS BLOCK



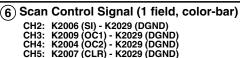




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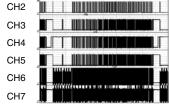
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CH2: K2006 (SI) - K2029 (DGND)
CH3: K2009 (OC1) - K2029 (DGND)
CH4: K2004 (OC2) - K2029 (DGND)
CH5: K2007 (CLR) - K2029 (DGND)
CH6: K2003 (CLK2) - K2029 (DGND)
CH7: K2008 (LE) - K2029 (DGND)
(50 Y DRIVE ASSY)





CH1: R1226 (XPSUS) - K1201 (SUSGND) (50 X DRIVE ASSY)

CH2: R2348 (YPSUS) - K2301 (SUSGND) (50 Y DRIVE ASSY)

CH3: K3001 (Scan OUT) - K2301 (SUSGND) (50 SCÀN A ASSÝ)

V: 100V/div. H: 100µsec/div.



CH1: R1226 (XPSUS) - K1201 (SUSGND) (50 X DRIVE ASSY)

CH2: R2348 (YPSUS) - K2301 (SUSGND) (50 Y DRIVE ASSY) CH3: K3001 (Scan OUT) - K2301 (SUSGND)

3 Sustain Pulse (1 sub-sub-field)

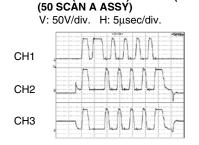
(7) X Drive Pulse Control Signal (color-bar)

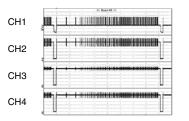
CH1: R1226 (XPSUS) - K2301 (SUSGND)

V: 100V/div. H: 2msec/div.

CH2: K1016 (XCP-MSK) - K1020 (DGND) CH3: K1015 (XSUS-MSK) - K1020 (DGND) CH4: K1014 (XNR-D) - K1020 (DGND)

: 1V/div. H: 2msec/div. (50 X DRIVE ASSY)

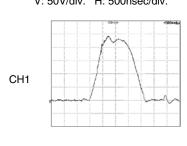




4) Sustain Waveform

CH1: R2348 (YPSUS) - K2301 (SUSGND) (50 Y DRIVE ASSY)

V: 50V/div. H: 500nsec/div.



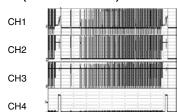
(8) Y Drive Pulse Control Signal (color-bar)

CH1: R2348 (YPSUS) - K2301 (SUSGND)

V: 50V/div. H: 2msec/div. CH2: K2015 (YSUS-MSK) - K2010 (DGND)

CH3: K2017 (YSOFT-D) - K2010 (DGND) CH4: K2023 (YPR-U) - K2010 (DGND)

(50 Y DRIVE ASSY)



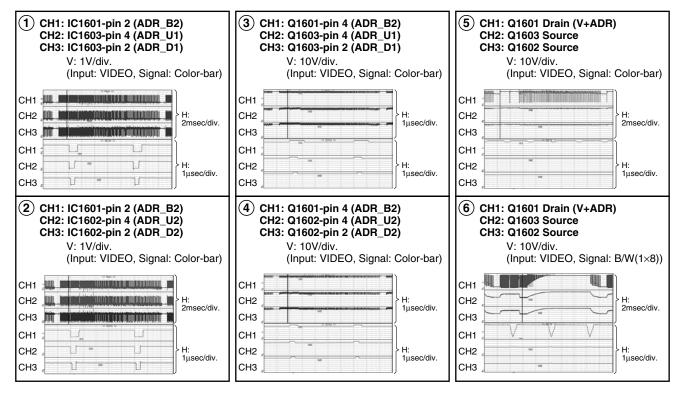
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PDP-504CMX

50 ADDRESS ASSY

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• ADR RESONANCE BLOCK (VIDEO)

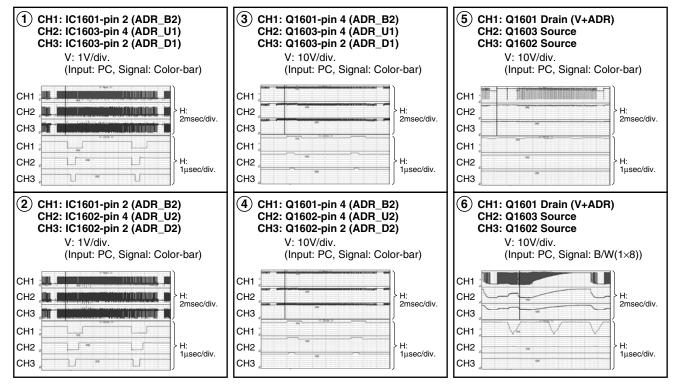


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50 ADDRESS ASSY

• ADR RESONANCE BLOCK (PC)

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50 ADDRESS ASSY • ADR LOGIC BLOCK

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СНЗ

(1) CH1: IC1553-pin 18 (CLK input) CH2: IC1553-pin 16 (LE input) CH3: IC1553-pin 9 (DATA input) V: 1V/div. (Input: VIDEO, Signal: Color-bar) CH1 CH2 MINIMARKANIA H: 2msec/div. CH1 : AVAMM. MINNAMANNAMANA MANA H: 200nsec/div. CH3 "NA AAAAAAAAA

(2) CH1: IC1553-pin 23 (HBLK input) CH2: IC1553-pin 19 (LBLK input) CH3: IC1553-pin 25 (HZ input) V: 1V/div. (Input: VIDEO, Signal: Color-bar) CH2 MA TO THE THIRD THE PARTY OF THE PARTY O H: 2msec/div. H: 50μsec/div. CH2

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■ 5 3.3 VOLTAGES

• Voltages

CN5601 (D1)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	+12V	ı	+12V power input	+12VDC
2	+12V	I	+12V power input	+12VDC
3	GND_D	_	GND	
4	GND_D	_	GND	
5	PD	0	Power down signal	OVDC
6	VSUS_ADJ	0	VSUS adjustment signal	
7	PS_PD	ı	Power-down detecting signal of POWER SUPPLY block	OVDC
8	RELAY	0	Relay control signal	+3.3VDC
9	DRF	0	Drive control signal	OVDC
10	AC_DET	ı	Primary side power (AC) state output at panel side	+3.0VDC
11	PD_TRIGGER	Ī	Power down trigger	+3.3VDC

CN5602 (D2)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	VADR	ı	Address drive power (+61V) input	+61VDC
2	VADR	ı	Address drive power (+61V) input	+61VDC
3	N.C		Not connected	
4	GND_ADR	_	GND	
5	GND_ADR	_	GND	
6	+6.5V	ı	+6.5V power input	+6.8VDC
7	GND_D	_	GND	

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PDP-504CMX

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POWER SUPPLY ASSY

R1 (CN7404)		Voltage	P8	
No.	Name	(V)	Name	No.
1	V+16.5V	16.7	V+16.5V	1
2	GND	0	GND	2
3	V+12V	12.9	V+12V	3
4	V+12V	12.9	V+12V	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+6.5V	6.8	V+6.5V	7
8	V+6.5V	6.8	V+6.5V	8
9	GND	0	GND	9
10	GND	0	GND	10
11	V+3V_STB	3.3	V+3V_STB	11
12	GND	0	GND	12
13	AC_DET	3.3	AC_DET	13

RGB ASSY

AV I/O ASSY

R2 (CN6401)		Voltage	AV4 (CN8705)		
No.	Name	(V)	Name	No.	
1	VD_SLOT	0	VD_SLOT	1	
2	HD_SLOT	0	HD_SLOT	2	
3	GNDD	0	GNDD	3	
4	B_SLOT	0	B_SLOT	4	
5	GNDD	0	GNDD	5	
6	G_SLOT	0	G_SLOT	6	
7	GNDD	0	GNDD	7	
8	R_ SLOT	0	R_ SLOT	8	
9	VD_IO	5	VD_IO	9	
10	HD_ IO	4.5	HD_ IO	10	
	R13 (CN6402)				
1	GNDD	0	GNDD	11	
2	B_ IO	0	B_ IO	12	
3	GNDD	0	GNDD	13	
4	G_ IO	0	G_IO	14	
5	GNDD	0	GNDD	15	
6	R_IO	0	R_IO	16	

RGB ASSY

COMM SLOT I/F ASSY

	R3 (CN7406)	Voltage	CS2 (CN8902)	
No.	Name	(V)	Name	No.
1	V+5V_STB	5.1	V+5V_STB	1
2	GND	0	GND	2
3	V+3V_STB	3.3	V+3V_STB	3
4	CYOBI1	3.3	CYOBI1	4
5	CYOBI2	0	CYOBI2	5
6	CYOBI3	0	CYOBI3	6
7	GND	0	GND	7
8	SR_OUT	4.9	SR_OUT	8
9	SLOT_ST_COM	3.3	SLOT_ST_COM	9
10	V+6V	6.8	V+6V	10
11	NC	0	NC	11

RGB ASSY

VIDEO SLOT I/F ASSY

	R4 (CN7407)	Voltage	VS1 (CN8951)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	V+13V	13.6	V+13V	3
4	V+13V	13.6	V+13V	4
5	V+12V	12.9	V+12V	5
6	V+12V	12.9	V+12V	6
7	GND	0	GND	7
8	V+3V_STB	3.3	V+3V_STB	8
9	GND	0	GND	9
10	V+3V_DD	3.3	V+3V_DD	10
11	V+3V_DD	3.3	V+3V_DD	11
12	GND	0	GND	12

RGB ASSY

DIGITAL VIDEO ASSY

	R5 (CN7408)		D3 (CN5002)	
No.	Name	Voltage (V)	Name	No.
1	V+1V_DD	1.4	V+1V_DD	1
2	V+1V_DD	1.4	V+1V_DD	2
3	V+1V_DD	1.4	V+1V_DD	3
4	GND	0	GND	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+3V_DD	3.3	V+3V_DD	7
8	V+3V_DD	3.3	V+3V_DD	8
9	GND	0	GND	9
10	GND	0	GND	10
11	NC			
12	NC			

RGB ASSY

LED OPT ASSY (OPT)

R7 (CN7205)		Voltage	LO2 (CN9051)	
No.	Name	(V)	Name	No.
1	3.3V	3.3	3.3V	1
2	RLS	0-3.3	RLS	2
3	GND	0	GND	3
4	GND	0	GND	4

RGB ASSY

FAN (L), (R)

R8 (CN7402)		Voltage	FAN (L)	
No.	Name	(V)	Name	No.
1	FAN_12V	0	FAN_12V	1
2	FAN_NG	3.2	FAN_NG	2
3	GND	0	GND	3
			FAN (R)	
4	FAN_12V	0	FAN_12V	1
5	FAN_NG	3.2	FAN_NG	2
6	GND	0	GND	3
7	NC			

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RG	B ASSY			
	R9 (CN5701)	_		
No.	Name			
ΑV	I/O IF ASSY		AV I/O AS	SY
	CN2102, AV6 (CN2101)	Voltage	CN8705	
No.	Name	(V)	Name	No.
1	N.C.	0	N.C.	101
2	N.C.	0	N.C.	102
3	A_R_SLOT	0	A_R_SLOT	103
4	GND	0	GND	104
5	A_L_SLOT	0	A_L_SLOT	105
6	GND	0	GND	106
7	V+12V	12.9	V+12V	107
8	GND	0	GND	108
9	1N1_HD	4.4	1N1_HD	109
10	1N1_VD	4.8	1N1_VD	110
11	WE_ROM_B	0	WE_ROM_B	111
12	KEY	3.3	KEY	112
13	IO_YOBI2	0	IO_YOBI2	113
14	SR_OUT	5	SR_OUT	114
15	RXD_IF	3.3	RXD_IF	115
16	CLK_IF	3.3	CLK_IF	116
17	RXD_WR	3.3	RXD_WR	117
18	REQ_IF	0	REQ_IF	118
19	RST_IF	0	RST_IF	119
20	IF_CE	3.2	IF_CE	120
21	HOT_P1	0	HOT_P1	121
22	HDMI2_SDA	0	HDMI2_SDA	122
23	HDMI_INT1	3.2	HDMI_INT1	123
24	SCL_AV	3.3	SCL_AV	124
25	HDMI_AUDIO_CLK	0	HDMI_AUDIO_CLK	125
26	D_AUDIO_SEL	0	D_AUDIO_SEL	126
27	CEC2	0	CEC2	127
28	GND	0	GND	128
29	HD_DVI	0	HD_DVI	129
30	DE_DVI	0	DE_DVI	130
31	GND	0	GND	131
32	RB_DVI7	0/3.3	RB_DVI7	132
33	RB_DVI6	0/3.3	RB_DVI6	133
34	RB_DVI4	0/3.3	RB_DVI4	134
35	RB_DVI2	0/3.3	RB_DVI2	135
36	RB_DVI0	0/3.3	RB_DVI0	136
37	GB_DVI6	0/3.3	GB_DVI6	137
38	GB_DVI4	0/3.3	GB_DVI4	138
39 40	GB_DVI2	0/3.3	GB_DVI2 GB_DVI0	139
41	GB_DVI0 BB_DVI6	0/3.3	BB_DVI6	140
41	BB_DVI4	0/3.3	BB_DVI6	141
43	BB_DVI2	0/3.3	BB_DVI4 BB DVI2	143
44	BB_DVI2	0/3.3	BB_DVI2	144
45	RA_DVI7	0/3.3	RA_DVI7	145
46	RA_DVI5	0/3.3	RA_DVI5	146
47	RA_DVI3	0/3.3	RA_DVI3	147
48	RA_DVI1	0/3.3	RA_DVI1	148
49	GND	0/0.0	GND	149
52	GA_DVI7	0/3.3	GA_DVI7	152
53	GA_DVI5	0/3.3	GA_DVI5	153
54	GA_DVI3	0/3.3	GA_DVI3	154
55	GA_DVI1	0/3.3	GA_DVI1	155
56	BA_DVI7	0/3.3	BA_DVI7	156
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RGB ASSY

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No.	R9 (CN5701)			
No.	Name			
AV I/O IF ASSY CN2102, AV6 (CN2101)			AV I/O ASS	
	. , ,	Voltage	CN8705	
No.	Name	(V)	Name	N
57	BA_DVI5	0/3.3	BA_DVI5	1
58	BA_DVI3	0/3.3	BA_DVI3	1
59	GND	0	GND	1
60	V+5V_A2	5	V+5V_A2	1
61	N.C.	0	N.C.	1
62	N.C.	0	N.C.	1
101	N.C.	0	N.C.	+
102	N.C.	0	N.C.	+
103	A_MUTE	0	A_MUTE	+
104	TEMP3	0Å`3.3	TEMP3	
105	V+6V	6.8	V+6V	
106	GND	0	GND	
107	V+3V_A1	3.3	V+3V_A1	
108	GND	0	GND	+
109	V+3V_UCOM GND	3.3	V+3V_UCOM GND	
-	V+3VSTB	3.3	V+3VSTB	+
111	IO_YOBI1	0	IO_YOBI1	+
113	PN2	0	PN2	+
114	ACTIVE	3.2	ACTIVE	+
115	TXD_IF	3.3	TXD_IF	+
116	TXD_IF	3.3	TXD_WR	+
117	AC_DET	3.3	AC_DET	+
118	IF_BUSY	0	IF_BUSY	+
119	RESET	3.3	RESET	+
120	HDMI_AUDIO_CE	0.0	HDMI_AUDIO_CE	+
121	HOT_P2	0	HOT_P2	1
122	HDMI2_SCL	0	HDMI2_SCL	+
123	SDA AV	3.2	SDA_AV	1
124	HDMI_INT2	3.2	HDMI_INT2	
125	HDMI_AUDIO_TXD	0	HDMI AUDIO TXD	1
126	CEC1	2	CEC1	1
127	RESETX1	3.3	RESETX1	1
128	VD_DVI	0	VD_DVI	1
129	GND	0	GND	1
130	CLK_DVI	0	CLK_DVI	1
131	GND	0	GND	1
132	GND	0	GND	:
133	RB_DVI5	0/3.3	RB_DVI5	;
134	RB_DVI3	0/3.3	RB_DVI3	:
135	RB_DVI1	0/3.3	RB_DVI1	:
136	GB_DVI7	0/3.3	GB_DVI7	:
137	GB_DVI5	0/3.3	GB_DVI5	;
138	GB_DVI3	0/3.3	GB_DVI3	:
139	GB_DVI1	0/3.3	GB_DVI1	;
140	GND	0	GND	4
141	BB_DVI6	0/3.3	BB_DVI6	4
142	BB_DVI4	0/3.3	BB_DVI4	4
143	BB_DVI2	0/3.3	BB_DVI2	4
144	BB_DVI0	0/3.3	BB_DVI0	4
145	RA_DVI6	0/3.3	RA_DVI6	4
146	RA_DVI4	0/3.3	RA_DVI4	4
147	RA_DVI2	0/3.3	RA_DVI2	4
148	RA_DVI0	0/3.3	RA_DVI0	-

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R9 (CN5701) No. Name AV I/O IF ASSY AV I/O ASSY CN2102, AV6 (CN2101) CN8705 Voltage (V) No. No. Name Name 49 149 GND 0 GND 52 152 GA_DVI6 0/3.3 GA_DVI6 53 153 GA_DVI4 0/3.3 GA_DVI4 54 154 GA_DVI2 0/3.3 GA_DVI2 155 GA_DVI0 0/3.3 GA_DVI0 55 156 BA_DVI6 0/3.3 BA_DVI6 56 57 157 BA_DVI4 0/3.3 BA_DVI4 58 158 BA_DVI2 0/3.3 BA_DVI2 159 BA_DVI1 0/3.3 BA_DVI1 59

0/3.3

0

0

BA_DVI0

NC

NC

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RGB ASSY VIDEO SLOT I/F ASSY

BA_DVI0

NC

NC

	R11 (CN7410)	Voltage	VS3 (CN8955)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	KEY	3.3	KEY	2
3	EMGREQ1_V	0	EMGREQ1_V	3
4	EMGREQ2_V	0	EMGREQ2_V	4
5	IC1V_OE	3.3	IC1V_OE	5
6	RESETX1	3.3	RESETX1	6
7	GND	0	GND	7
8	SD_SEL	3.3	SD_SEL	8
9	FNC2	0	FNC2	9
10	FNC3	0	FNC3	10
11	SOUND1	3.3	SOUND1	11
12	GND	0	GND	12
13	DSUBR	3.77	DSUBR	13
14	GND	0	GND	14
15	DSUBG	0	DSUBG	15
16	GND	0	GND	16
17	DSUBB	3.8	DSUBB	17
18	GND	0	GND	18
19	GND	0	GND	19
20	IN5_HD	0	IN5_HD	20
21	GND	0	GND	21
22	SOUSA_X	3.3	SOUSA_X	22
23	VYOBI1	0	VYOBI1	23
24	VYOBI2	0	VYOBI2	24
25	DSUBSW_DET	0	DSUBSW_DET	25
26	GND	0	GND	26
27	GND	0	GND	27
28	GND	0	GND	28
29	EMGREQ1_S	0	EMGREQ1_S	29
30	EMGREQ2_S	0	EMGREQ2_S	30
31	IC1S_OE	0	IC1S_OE	31
32	SLOT_ST3	0.4	SLOT_ST3	32
33	M_CHOICE	0	M_CHOICE	33
34	SOUND2	0	SOUND2	34
35	GND	0	GND	35
36	GND	0	GND	36
37	DSUBH	4.5	DSUBH	37

RGB ASSY

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VIDEO SLOT I/F ASSY

	R11 (CN7410)	Voltage	VS3 (CN8955)	
No.	Name	(V)	Name	No.
38	GND	0	GND	38
39	GND	0	GND	39
40	DSUBV	5	DSUBV	40
41	GND	0	GND	41
42	GND	0	GND	42
43	IN5_VD	3.3	IN5_VD	43
44	GND	0	GND	44
45	GND	0	GND	45
46	HYOUJI_X	0	HYOUJI_X	46
47	VYOBI4	0	VYOBI4	47
48	VYOBI5	0	VYOBI5	48
49	VYOBI6	0	VYOBI6	49
50	WE_ROM_B	0	WE_ROM_B	50

RGB ASSY

VIDEO SLOT I/F ASSY

	R12 (CN7405)	Voltage	VS4 (CN8953)	
No.	Name	(V)	Name	No
1	GND	0	GND	1
2	GND	0	GND	2
3	G_SLOT	0	G_SLOT	3
4	GND	0	GND	4
5	B_SLOT	0	B_SLOT	5
6	GND	0	GND	6
7	R_SLOT	0	R_SLOT	7
8	GND	0	GND	8
9	HD_SLOT	0	HD_SLOT	9
10	GND	0	GND	10
11	VD_SLOT	0	VD_SLOT	11
12	GND	0	GND	12
13	AUDIO_L_SLOT	6	AUDIO_L_SLOT	13
14	GND	0	GND	14
15	AUDIO_R_SLOT	6	AUDIO_R_SLOT	15
16	GND	0	GND	16
17	SLOT_ST1	0	SLOT_ST1	17
18	S_DIN_SEL	0	S_DIN_SEL	18
19	FNC_1	0	FNC_1	19
20	FNC_0	5	FNC_0	20
21	NC	0	NC	2
22	NC	0	NC	2
23	VD_DET	0	VD_DET	23
24	GND	0	GND	24
25	HD_DET	0	HD_DET	25
26	GND	0	GND	26
27	VD_IC1	3.2	VD_IC1	27
28	GND	0	GND	28
29	HD_IC1	3	HD_IC1	29
30	GND	0	GND	30
31	GND	0	GND	3
32	RB0_IC1	0/3.3	RB0_IC1	32
33	RB1_IC1	0/3.3	RB1_IC1	3
34	RB2_IC1	0/3.3	RB2_IC1	34
35	RB3_IC1	0/3.3	RB3_IC1	35
36	RB4_IC1	0/3.3	RB4_IC1	36
37	RB5_IC1	0/3.3	RB5_IC1	37

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RGE	B ASSY		VIDEO SLOT I/F A	SSY
	R12 (CN7405)	Voltage	VS4 (CN8953)	1
No.	Name	(V)	Name	No.
38	RB6_IC1	0/3.3	RB6_IC1	38
39	RB7_IC1	0/3.3	RB7_IC1	39
40	GND	0	GND	40
41	GND	0	GND	41
42	GB0_IC1	0/3.3	GB0_IC1	42
43	GB1_IC1	0/3.3	GB1_IC1	43
44	GB2_IC1	0/3.3	GB2_IC1	44
45	GB3_IC1	0/3.3	GB3_IC1	45
46	GB4_IC1	0/3.3	GB4_IC1	46
47	GB5_IC1	0/3.3	GB5_IC1	47
48	GB6_IC1	0/3.3	GB6_IC1	48
49	GB7_IC1	0/3.3	GB7_IC1	49
50	GND	0	GND	50
51	GND	0	GND	51
52	BB0_IC1	0/3.3	BB0_IC1	52
53	BB1_IC1	0/3.3	BB1_IC1	53
54	BB2_IC1	0/3.3	BB2_IC1	54
55	BB3_IC1	0/3.3	BB3_IC1	55
56	BB4_IC1	0/3.3	BB4_IC1	56
57	BB5_IC1	0/3.3	BB5_IC1	57
58	BB6_IC1	0/3.3	BB6_IC1	58
59	BB7_IC1	0/3.3	BB7_IC1	59
60	GND	0	GND	60
61	GND	0	GND	61
62	GND	0	GND	62
63	SCL_VS	3.1	SCL_VS	63
64	GND	0	GND	64
65	SDA_VS	3.1	SDA_VS	65
66	GND	0	GND	66
67	GND	0	GND	67
68	GND	0	GND	68
69	NC	0	NC	69
70	GND	0	GND	70
71	NC	0	NC	71
72	GND	0	GND	72
73	NC	0	NC	73
74	GND	0	GND	74
75	NC	0	NC	75
76	NC	0	NC	76
77	IN4_DET	0	IN4_DET	77
78	IN3 DET	0	IN3_DET	78
79	SLOT ST2	3	SLOT_ST2	79
80	SR_VS	5.1	SR_VS	80
81	NC NC	0	NC NC	81
82	3G4G	3.3	3G4G	82
83	GND	0	GND	83
84	GND	0	GND	84
85	IN5_DET	0	IN5_DET	85
86	GND	0	GND	86
87	DE_IC1	2.5	DE_IC1	87
-		+		+
88	GND CK IC1	0	GND CK IC1	88
89	CK_IC1	1.5	CK_IC1	89
90	GND	0	GND	90
91	GND BAZ IC1	0	GND BAZ IC1	91

VIDEO SLOT I/F ASSY

8

В

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	R12 (CN7405)	Voltage	VS4 (CN8953)	
No.	Name	(V) (V)	Name	No
95	BA4_IC1	0/3.3	BA4_IC1	95
96	BA3_IC1	0/3.3	BA3_IC1	96
97	BA2_IC1	0/3.3	BA2_IC1	97
98	BA1_IC1	0/3.3	BA1_IC1	98
99	BA0_IC1	0/3.3	BA0_IC1	99
100	GND	0	GND	100
101	GND	0	GND	10
102	GA7_IC1	0/3.3	GA7_IC1	10
103	GA6_IC1	0/3.3	GA6_IC1	103
104	GA5_IC1	0/3.3	GA5_IC1	104
105	GA4_IC1	0/3.3	GA4_IC1	10
106	GA3_IC1	0/3.3	GA3_IC1	10
107	GA2_IC1	0/3.3	GA2_IC1	10
108	GA1_IC1	0/3.3	GA1_IC1	108
109	GA0_IC1	0/3.3	GA0_IC1	109
110	GND	0	GND	110
111	GND	0	GND	11
112	RA7_IC1	0/3.3	RA7_IC1	11:
113	RA6_IC1	0/3.3	RA6_IC1	11:
114	RA5_IC1	0/3.3	RA5_IC1	114
115	RA4_IC1	0/3.3	RA4_IC1	119
116	RA3_IC1	0/3.3	RA3_IC1	110
117	RA2_IC1	0/3.3	RA2_IC1	111
118	RA1_IC1	0/3.3	RA1_IC1	113
119	RA0_IC1	0/3.3	RA0_IC1	119
120	GND	0	GND	12
121	GND	0	GND	12
122	GND	0	GND	12

AV I/O ASSY

AUDIO AMP ASSY

,	071001		<i>-</i>	
	AV1 (CN7601)	Voltage	AP2 (CN5001)	
No.	Name	(V)	Name	No.
1	A_NG	3.2	A_NG	15
2	TEMP3	0-3.3	TEMP3	14
3	A_MUTE	0	A_MUTE	13
4	ST_BY	2.5	ST_BY	12
5	GND	0	GND	11
6	V+6V	6.8	V+6V	10
7	V+3V	3.3	V+3V	9
8	V+12A	12	V+12A	8
9	GND	0	GND	7
10	-R_OUT	6	-R_OUT	6
11	+R_OUT	6	+R_OUT	5
12	GND	0	GND	4
13	-L_OUT	6	-L_OUT	3
14	+L_OUT	6	+L_OUT	2
15	GND	0	GND	1

AV I/O ASSY

KEY CONTROL ASSY

8

	AV2 (CN8702)	Voltage	KY1 (CN9001)	
No.	Name	Voltage (V)	Name	No.
1	GND	0	GND	1
2	KEY	3.3	KEY	2
3	V+3VSTB	3.3	V+3VSTB	3

51

0/3.3

0/3.3

0/3.3

BA7_IC1

BA6_IC1

BA5_IC1

92

93

94

92

93

94

BA7_IC1

BA6_IC1

BA5_IC1

В

	AV3 (CN8703) Voltage KY1 (CN9651)			
No.	Name	(V)	Name	No.
1	V+3STB	3.3	V+3STB	1
2	LED_ G	0	LED_ G	2
3	LED_ R	3.3	LED_ R	3
4	GND	0	GND	4
5	AC_ DET	3	AC_ DET	5

AV I/O ASSY COMM SLOT I/F ASSY

	AV5 (CN8704)	Voltage	oltage KY1 (CN8905)	
No.	Name	(V)	Name	No.
1	STL_LINK	3.3	STL_LINK	1
2	CB_MUTE	3.3	CB_MUTE	2
3	KEY	3.3	KEY	3
4	RXD	3.3	RXD	4
5	TXD	3.3	TXD	5
6	GND	0	GND	6

AUDIO AMP ASSY

POWER SUPPLY ASSY

	AP1 (CN5002)	Voltage	P6	
No.	Name	(V)	Name	No.
1	V+16R5	16.7	V+16R5	1
2	V+16R5	16.7	V+16R5	2
3	GNDP	0	GNDP	3
4	GNDP	0	GNDP	4
5	GNDP	0	GNDP	5
6	GNDP	0	GNDP	6

AUDIO AMP ASSY

SP TERMINAL R ASSY

	AP3 (CN5003)	Voltage	SP2 (CN9801)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	R+	5.3	R+	2
3	R-	5.2	R-	3
			SP TERMINAL L ASSY	
			SP1 (CN9702)	
4	STBGND	0	STBGND	1
5	TEMP3	0-3.3	TEMP3	2
6	V+3VDD	3.3	V+3VDD	3
7	GND	0	GND	4
8	L+	5.3	L+	5
9	L-	5.2	L-	6

KEY CONTROL ASSY

SIDE KEY ASSY

	KY2 (CN9002)	Voltage	KY3 (CN4801)	
No.	Name	(V)	Name	No.
1	D7	0/3.3	D7	1
2	D6	0/3.3	D6	2
3	D5	0/3.3	D5	3
4	G0	0/3.3	G0	4
5	G1	0/3.3	G1	5
6	G2	0/3.3	G2	6
7	G3	0/3.3	G3	7
8	GND	0	GND	8

Voltage (V) No. No. Name Name V+3STB 3.3 V+3STB 1 2 2 GND GND 0 3 0 3 GND 4 GND 0

COMM SLOT I/F ASSY

3

CS4 (CN8901)

COMM SLOT ASSY

RE1 (CN4901)

	CS5 (CN8904)	Voltage	CN9454	
No.	Name	(V)	Name	No
1	NC	0	NC	1
2	IRSW	0	IRSW	2
3	IR_COMM_OUT	5.1	IR_COMM_OUT	3
4	IR_COMM_IN	5.1	IR_COMM_IN	4
5	GND	0	GND	5
6	GND	0	GND	6
7	GND	0	GND	7
8	CYOBI3	0	CYOBI3	8
9	CYOBI2	0	CYOBI2	9
10	CSL_ST2	3.3	CSL_ST2	10
11	CSL_ST1	3.3	CSL_ST1	11
12				12
13				13
14	GND	0	GND	14
15	GND	0	GND	15
16	FIRST_RXD	3.3	FIRST_RXD	16
17	GET_UART	3.3	GET_UART	17
18	INT_EXT	3.3	INT_EXT	18
19	RXD_CARD	0	RXD CARD	19
20	TXD CARD	0	TXD_CARD	20
21	GPC5	0	GPC5	21
22	GPC4	0	GPC4	22
23	GPC3	0	GPC3	23
24	GPC2	0	GPC2	24
25	GPC1	0	GPC1	25
101	NC	0	NC	10
102	GND	0	GND	10
103	GND	0	GND	10:
104	GND	0	GND	10-
105	TXD_PDP	3.3	TXD_PDP	10
106	RXD_PDP	3.3	RXD_PDP	10
107	KEY_COMM_IN	3.3	KEY_COMM_IN	10
108	CB_MUTE	3.3	CB MUTE	10
109	STL_LINK	3.3	STL_LINK	10
110	GND	0	GND	110
111	GND	0	GND	11
114	V+6.5V	6.8	V+6.5V	11-
115	V+6.5V	6.8	V+6.5V	11:
116	GND	0	GND	110
117	GND	0	GND	11
118	V+3VSTB	3.3	V+3VSTB	118
119	V+3VSTB	3.3	V+3VSTB	119
120	NC	0	NC	12
121	NC	0	NC	12
122	NC	0	NC	12
123	NC	0	NC	12
124	NC	0	NC	124
125	NC	0	NC	12

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COMM SLOT I/F ASSY VIDEO SLOT I/F ASSY

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6

	CS3 (CN8903)	Voltage	VS2 (CN8952)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	FIRST_RXD	3.3	FIRST_RXD	2
3	GET_UART	3.3	GET_UART	3
4	INT_EXT	3.3	INT_EXT	4
5	RXD_GU	0	RXD_GU	5
6	TXD_GU	0	TXD_GU	6
7	GPC5	0	GPC5	7
8	GPC4	0	GPC4	8
9	GPC3	0	GPC3	9
10	GPC2	0	GPC2	10
11	GPC1	0	GPC1	11

	EO SLOT I/F ASSY VS5 (CN8954)		VIDEO SLOT 1 and 2 A	.001
N -	, ,	Voltage (V)		T
No.	Name		Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	G_SLOT	0	G_SLOT	3
4	GND	0	GND	4
5	B_SLOT	0	B_SLOT	5
6	GND	0	GND	6
7	R_SLOT	0	R_SLOT	7
8	GND	0	GND	8
9	HD_SLOT	0	HD_SLOT	9
10	GND	0	GND	10
11	VD_SLOT	0	VD_SLOT	11
12	GND	0	GND	12
13	AUDIO_L_SLOT	6	AUDIO_L_SLOT	13
14	GND	0	GND	14
15	AUDIO_R_SLOT	6	AUDIO_R_SLOT	15
16	GND	0	GND	16
17	SLOT_ST1	0	SLOT_ST1	17
18	S_DIN_SEL	0	S_DIN_SEL	18
19	FNC_1	0	FNC_1	19
20	FNC_0	5	FNC_0	20
21	V+3.3V	3.2	V+3.3V	21
22	V+3.3V	3.2	V+3.3V	22
23	VD_DET	0	VD_DET	23
24	GND	0	GND	24
25	HD_DET	0	HD_DET	25
26	GND	0	GND	26
27	VD	3.2	VD	27
28	GND	0	GND	28
29	HD	3	HD	29
30	GND	0	GND	30
31	GND	0	GND	31
32	RB0_IC1	0/3.3	RB0_IC1	32
33	RB1_IC1	0/3.3	RB1_IC1	33
34	RB2_IC1	0/3.3	RB2_IC1	34
35	RB3_IC1	0/3.3	RB3_IC1	35
36	RB4_IC1	0/3.3	RB4_IC1	36
37	RB5_IC1	0/3.3	RB5_IC1	37
38	RB6_IC1	0/3.3	RB6_IC1	38
39	RB7_IC1	0/3.3	RB7_IC1	39
40	GND	0	GND	40
41	GND	0	GND	41
42	GB0_IC1	0/3.3	GB0_IC1	42

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VIDEO SLOT I/F ASSY VIDEO SLOT 1 and 2 ASSY

В

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V 1D	EU SLUT I/F ASSY		VIDEO SLOT Tand 2 A	001
	VS5 (CN8954)	Voltage (V)	CN7902	T
No.	Name		Name	No.
43	GB1_IC1	0/3.3	GB1_IC1	43
44	GB2_IC1	0/3.3	GB2_IC1	44
45	GB3_IC1	0/3.3	GB3_IC1	45
46	GB4_IC1	0/3.3	GB4_IC1	46
47	GB5_IC1	0/3.3	GB5_IC1	47
48	GB6_IC1	0/3.3	GB6_IC1	48
49	GB7_IC1	0/3.3	GB7_IC1	49
50		Å		50
51		Å		51
52	GND	0	GND	52
53	GND	0	GND	53
54	BB0_IC1	0/3.3	BB0_IC1	54
55	BB1_IC1	0/3.3	BB1_IC1	55
56	BB2_IC1	0/3.3	BB2_IC1	56
57	BB3_IC1	0/3.3	BB3_IC1	57
58	BB4_IC1	0/3.3	BB4_IC1	58
59	BB5_IC1	0/3.3	BB5_IC1	59
60	BB6_IC1	0/3.3	BB6_IC1	60
61	BB0_IC1	0/3.3	BB0_IC1	61
62	GND	0/3.3	GND	62
	GIND	0	GIND	
63				63
64	OND	_	OND	64
65	GND	0	GND	65
66	GND	0	GND	66
67	KEY	3.3	KEY	67
68	NC	0	NC	68
69	TXD_CARD	0	TXD_CARD	69
70	RXD_CARD	0	RXD_CARD	70
71	INT_EXT	3.3	INT_EXT	71
72	NC	0	NC	72
73	EMGREQ1_V	0	EMGREQ1_V	73
74	EMGREQ2_V	0	EMGREQ2_V	74
75	IC1V_OE	3.3	IC1V_OE	75
76	RESETX1	3.3	RESETX1	76
77	NC	0	NC	77
78	SD_SEL	3.3	SD_SEL	78
79	FNC2	0	FNC2	79
80	FNC3	0	FNC3	80
81	SOUND1	3.3	SOUND1	81
82	GND	0	GND	82
83	DSUBR	3.8	DSUBR	83
84	GND	0	GND	84
85	DSUBG	0	DSUBG	85
86	GND	0	GND	86
87	DSUBB	3.8	DSUBB	87
88	GND	0.0	GND	88
89	IN5_HD	0	IN5_HD	89
90	SOUSA_X	3.3	SOUSA X	90
91	GPC1	0	GPC1	91
92	GPC2	0	GPC2	92
93				93
	GPC5	0	GPC5	
94	VYOBI1	0	VYOBI1	94
95	VYOBI2	0	VYOBI2	95
96	DSUBSW_DET	0	DSUBSW_DET	96
101	GND	0	GND	101
102	GND	0	GND	102
103	l GND	0	GND	103

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PDP-504CMX

1 2 3

VIDEO SLOT I/F ASSY VS5 (CN8954)			CN7902	1 and 2 ASSY	
N-		Voltage (V)	'		
No.	Name		Name	No.	
104	SCL_VS	3.1	SCL_VS	104	
105	GND	0	GND	105	
106	SDA_VS	3.1	SDA_VS	106	
107	GND	0	GND	107	
108	GND	0	GND	108	
109	GND	0	GND	109	
110	V+12V	12.9	V+12V	110	
111	GND	0	GND	111	
112	NC	0	NC	112	
113	GND	0	GND	113	
114	V+3.3STB	3.3	V+3.3STB	114	
115	V+13.5	13.6	V+13.5	115	
116	V+13.5	13.6	V+13.5	116	
117	IN4_DET	0	IN4_DET	117	
118	IN3_DET	0	IN3_DET	118	
119	SLOT_ST2	3	SLOT_ST2	119	
120	IR	5.1	IR	120	
121	NC	0	NC	121	
122	NC	0	NC	122	
123	GND	0	GND	123	
124	GND	0	GND	124	
125	3G4G	3.3	3G4G	125	
126	IN5_DET	0	IN5_DET	126	
127	GND	0	GND	127	
128	DE	2.5	DE	128	
129	GND	0	GND	129	
130	CLK	1.5	CLK	130	
131	GND	0	GND	131	
132	BA7_IC1	0/3.3	BA7_IC1	132	
133	BA6_IC1	0/3.3	BA6_IC1	133	
134	BA5_IC1	0/3.3	BA5_IC1	134	
135	BA4_IC1	0/3.3	BA4_IC1	135	
136	BA3_IC1	0/3.3	BA3_IC1	136	
137	BA3_IC1	0/3.3		137	
138			BA2_IC1	_	
	BA1_IC1	0/3.3	BA1_IC1	138	
139	BA0_IC1	0/3.3	BA0_IC1		
140	GND	0	GND	140	
141	GND	0	GND	141	
142	GA7_IC1	0/3.3	GA7_IC1	142	
143	GA6_IC1	0/3.3	GA6_IC1	143	
144	GA5_IC1	0/3.3	GA5_IC1	144	
145	GA4_IC1	0/3.3	GA4_IC1	145	
146	GA3_IC1	0/3.3	GA3_IC1	146	
147	GA2_IC1	0/3.3	GA2_IC1	147	
148	GA1_IC1	0/3.3	GA1_IC1	148	
149	GA0_IC1	0/3.3	GA0_IC1	149	
150		Å@		150	
151		Å@		151	
152	GND	0	GND	152	
153	GND	0	GND	153	
154	RA7_IC1	0/3.3	RA7_IC1	154	
155	RA6_IC1	0/3.3	RA6_IC1	155	
156	RA5_IC1	0/3.3	RA5_IC1	156	
157	RA4_IC1	0/3.3	RA4_IC1	157	
158	RA3_IC1	0/3.3	RA3_IC1	158	
159	RA2_IC1	0/3.3	RA2_IC1	159	
160	RA1_IC1	0/3.3	RA1_IC1	160	

	VS5 (CN8954)	Voltage	CN7902	
No.	Name	(V)	Name	No.
161	RA0_IC1	0/3.3	RA0_IC1	161
162	GND	0	GND	162
163				163
164				164
165	GND	0	GND	165
166	GND	0	GND	166
167	VSEPSCL	3.3	VSEPSCL	
168	VSEPSDA	3.3	VSEPSDA	168
169	NC	0	NC	169
170	GET_UART	3.3	GET_UART	170
171	FIRST_RXD	3.3	FIRST_RXD	171
172	NC	0	NC	172
173	EMGREQ1_S	0	EMGREQ1_S	173
174	EMGREQ2_S	0	EMGREQ2_S	174
175	IC1S_OE	0	IC1S_OE	175
176	NC	0	NC	176
177	NC	0	NC	177
178	NC	0	NC	178
179	SLOT_ST3	0.4	SLOT_ST3	179
180	M_CHOICE	0	M_CHOICE	180
181	SOUND2	0	SOUND2	181
182	GND	0	GND	182
183	GND	0	GND	183
184	DSUBH	4.5	DSUBH	184
185	GND	0	GND	185
186	DSUBV	4.95	DSUBV	186
187	GND	0	GND	187
188	GND	0	GND	188
189	IN5_VD	3.3	IN5_VD	189
190	HYOUJI_X	0	HYOUJI_X	190
191	GPC3	0	GPC3	191
192	GPC4	0	GPC4	192
193	NC	0	NC	193
194	VYOBI4	0	VYOBI4	194

0

0

195

196

VYOBI5

VYOBI6

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PDP-504CMX

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196

VYOBI5

VYOBI6

- NOTES: Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - ullet The $oldsymbol{oldsymbol{eta}}$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

 $560 \Omega \rightarrow 56 \times 10^{1} \rightarrow 561 \dots RD1/4PU[5]6[1]J$ $47k \Omega$ $\rightarrow R50 \longrightarrow RN2H \mathbb{R}[5]0K$ 0.5Ω 1Ω

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \dots RN1/4PC \boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

Mark No. **Description** Part No. LIST OF ASSEMBLIES

NSP	150 ADDRESS ASSY	AWV2069
NSP	250 ADDRESS ASSY	AWZ6839
NSP	150 SCAN FUKUGO ASSY	AWV2036
NSP	250 SCAN A ASSY	AWZ6809
NSP	250 SCAN B ASSY	AWZ6810
NSP	2X CONNECTOR A ASSY	AWZ6811
NSP	2X CONNECTOR B ASSY	AWZ6812
NSP	150 X DRIVE ASSY	AWV2034
	2PANEL SENSOR ASSY	AWZ6795
	250 X DRIVE ASSY	AWZ6808
	150 Y DRIVE ASSY	AWV2035
NSP	1RGB ASSY	AWV2095
	2SIDE KEY ASSY	AWZ6852
	2RGB ASSY	AWZ6883
NSP	1CMX FUKUGO ASSY	AWV2096
	2AV I/O ASSY	AWZ6847
	(PDP-504CMX type)	
	2AV I/O ASSY	AWZ6893
	(PDP-50MXE1, PDP-50MXE1-	• • •
	2AUDIO AMP ASSY	AWZ6848
	2COMM SLOT ASSY	AWZ6849
	2COMM SLOT I/F	AWZ6850
	2VIDEO SLOT I/F ASSY	AWZ6851
	(PDP-504CMX type)	
	2VIDEO SLOT I/F ASSY	AWZ6901
	(PDP-50MXE1, PDP-50MXE1-	
	2KEY CONTROL ASSY	AWZ6853
	2LED OPT ASSY	AWZ6854
	2IR RECIVE ASSY	AWZ6855
	2SP TERMINAL ASSY 2SP TERMINAR ASSY	AWZ6856
		AWZ6857
	(PDP-504CMX type)	
	2SP TERMINAR ASSY	AWZ6896
	(PDP-50MXE1, PDP-50MXE1-	
	2COVER ASSY	AWZ6858
	2AV I/O I/F ASSY	AWZ6859

1..DIGITAL VIDEO ASSY

1..VIDEO SLOT1 ASSY

1..VIDEO SLOT2 ASSY

(For PDA-5003)

(For PDA-5004)

CONTRAST OF PCB ASSEMBLIES

AV I/O ASSY

AWZ6847 and AWZ6893 are constructed the same except for the following:

Mark	No. Description	AWZ6847	AWZ6893
	[AV I/O BLOCK]		
	R7771	RS1/16S0R0J	Not used
	R7772	Not used	RS1/16S0R0J

VIDEO SLOT I/F ASSY

AWZ6851 and AWZ6901 are constructed the same except for the following:

Mark	No. Description	AWZ6851	AWZ6901	
	R8881	RS1/16S0R0J	Not used	
	R8882	Not used	RS1/16S0R0J	

SPTERMINAL R ASSY

AWZ6857 and AWZ6896 are constructed the same except for the following:

Mark	No. Description	AWZ6857	AWZ6896
	R9991	RS1/16S0R0J	Not used
	R9992	Not used	RS1/16S0R0J

PCB PARTS LIST for PDP-504CMX/LUC

Description Part No. Mark No. **50 ADDRESSASSY** [50 ADR LOGICBLOCK] **SEMICONDUCTORS**

IC1501 PEE001B

COILS AND FILTERS

ATF1194 F1501-F1503

CAPACITORS

C1553, C1556, C1559, C1560, C1563 ACG1105 C1501, C1502 ACH1357 C1503-C1507, C1552, C1555, C1558 CKSSYF104Z16 C1561, C1564 CKSSYF104Z16

RESISTORS

R1510, R1519, R1522, R1526 RAB4C470J R1505-R1509 RS1/16SS1000F Other Resistors RS1/16S###J

OTHERS

CN1501 40P FFC CONNECTOR AKM1215

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PDP-504CMX

AWV2100

AWV2097

AWV2098

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	Mark No. Description	Part No.	Mark No.	Description	Part No.
	<u> </u>			K3009, K3015, K3017	AKX9002
	[50 ADR RESONANCE BLOCK] SEMICONDUCTORS		TEST PIN K3019, K3021	TEST PIN	AKX9002
١	IC1601-IC1603	TND304S			
	Q1604 Q1601	2SA1163 HAT1081R			
	Q1602, Q1603	HAT3019R	50 SCA	N B ASSY	
	D1601	1SS302	SEMICONDU	CTORS	
	D1000 D1000 D1017 D1010	E01011400	IC3201-IC3206	3	AN16003A
	D1608, D1609, D1617, D1618 D1610, D1611, D1616, D1619, D1620	EC10UA20 EC11FS2	D3201		KU10N16
	D1604, D1612	MA126	CAPACITORS	2	
	D1602, D1606, D1607, D1614, D1615			, C3212, C3222, C3223	ACG1088
	D1621, D1622	UDZS24B	(0.1microF/25		7.000
	COILS AND FILTERS			, C3244, C3245	ACG1088
3	L1601, L1602	ATH1135	(0.1microF/25 C3255, C3256	,	ACC1000
	,		(0.1microF/25		ACG1088
	<u>CAPACITORS</u>		C3203, C3204	, C3214, C3215, C3226	CCSRCH101J50
	C1609, C1615 (0.47microF)	ACE1172	C3228, C3237	, C3239, C3247, C3251	CCSRCH101J50
	C1605, C1607, C1608, C1613, C1614 (0.01microF/100V)	ACG1101	C3258, C3259		CCSRCH101J50
	C1618	ACH1357	C3266, C3259		CCSRCH151J50
	C1603 (47microF/16V)	ACH1391		, C3232, C3243, C3249	CCSRCH181J50
	C1601, C1602 (56microF/80V)	ACH1405	C3261		CCSRCH181J50
	C1604, C1606, C1612	CKSSYF104Z16	C3205, C3210	, C3216, C3221	CCSRCH331J50
	01004, 01000, 01012	010011104210	C3230, C3231	, C3241, C3242, C3248	CCSRCH331J50
)	<u>RESISTORS</u>		C3254, C3260	, C3265	CCSRCH331J50
	R1631	ACN1174		, C3219, C3220, C3227	
	R1633 R1632	RS1/16S1202F RS1/16S1502F	C3229, C3238 C3263, C3264	, C3240, C3252, C3253	CCSRCH390J50 CCSRCH390J50
	Other Resistors	RS1/16S###J	00200, 00204		00011011030030
	50 SCAN A ASSY		C3202, C3213	, C3224, C3235, C3246	CKSRYB105K6R3
	SEMICONDUCTORS		C3257		CKSRYB105K6R3
	IC3001-IC3006	AN16003A	RESISTORS		
	D3001	KU10N16		, R3216, R3224, R3229	RAB4C221J
	CAPACITORS		R3235	,, - ,	RAB4C221J
	C3001, C3002, C3012, C3013	ACG1088	Other Resistor	S	RS1/16S###J
)	(0.1microF/250V)	71000	OTHERS		
	C3023, C3024, C3034, C3035	ACG1088	CN3201 15P	CONNECTOR	AKP1218
	(0.1microF/250V) C3045, C3046, C3056, C3057	ACG1088		K3214, K3216, K3218	AKX9002
	(0.1microF/250V)	ACG 1000	TEST PIN		
	C3005, C3008, C3016, C3019, C3026	CCSRCH101J50	K3220, K3221	TEST PIN	AKX9002
	C3029, C3037, C3040, C3048, C3051	CCSRCH101J50			
	C3060, C3063	CCSRCH101J50	X CON	NECTOR A ASS	SY
	C3004	CCSRCH151J50	This assembly ha	s no service part.	
	C3007, C3018, C3033, C3044, C3050	CCSRCH181J50			
	C3062 C3006, C3011, C3017, C3022	CCSRCH181J50 CCSRCH331J50		NECTOR B ASS	δY
	03000, 03011, 03017, 03022	00011011001000	This assembly ha	s no service part.	
	C3031, C3032, C3042, C3043, C3049	CCSRCH331J50	50 Y DI	RIVE ASSY	
	C3055, C3061, C3066	CCSRCH331J50	[50 X LOGIC E		
	C3009, C3010, C3020, C3021, C3028 C3030, C3039, C3041, C3053, C3054	CCSRCH390J50 CCSRCH390J50	SEMICONDU	-	
	C3064, C3065	CCSRCH390J50	IC1002	<u> </u>	TC74ACT540FT
	·		IC1001		TC74ACT541FT
-	C3003, C3014, C3025, C3036, C3047	CKSRYB105K6R3	IC1003		TC74VHC08FT
	C3058	CKSRYB105K6R3	CAPACITORS	3	
	RESISTORS		CAPACITOR.	∠	CEHAT470M25
	R3003, R3011, R3017, R3025, R3030	RAB4C221J	C1002-C1004		CKSRYB104K16
:	R3036	RAB4C221J			
	Other Resistors	RS1/16S###J	RESISTORS	D.1005	DAD46 :== :
	OTHERS		R1001, R1002 R1003, R1004	•	RAB4C470J RAB4C472J
	CN3001 15P CONNECTOR	AKP1218	111000, 111004	, 111007	11/107/04/20
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Mark No D-	corintian	6 Part No	Mark No. Description	8 Part No	
	<u>scription</u>	Part No.	Mark No. Description	Part No.	
<u>OTHERS</u>			Q1205	2SK3116-Z	
CN1001 30P FFC CC	NNECTOR	AKM1218	Q1206, Q1208	DTC124EK	
			Q1200, Q1200 Q1201	HN1B04FU	Α
[50 X RESONANCE	BI OCKI		D1212	1SS302	, ,
SEMICONDUCTOR			D1211, D1213, D1216	1SS355	
IC1103	<u></u>	BA10393F	D1201, D1207	EC10QS04	
IC1100 IC1101, IC1102		TND506MD			
Q1113		2SC2412K	D1204, D1301	EC11FS4	
Q1102, Q1103, Q1111	I, Q1112	2SK3560	D1214 D1208	EC8FS6 UDZS5.6B	
Q1105, Q1106, Q1108	3, Q1109	2SK3723	D1200	OD233.0D	
			COILS AND FILTERS		
Q1101, Q1104, Q1107 D1109, D1122	⁄, Q1110	CPH5506 1SS302	L1204, L1205	ATH1112	
D1109, D1122 D1131, D1132		1SS355	L1202	LFEA100J	
D1101, D1102, D1104	. D1105	EC11FS4	L1203, L1206	LFEA470J	_
D1107, D1108, D1111		EC11FS4			В
			<u>CAPACITORS</u>		
D1120, D1121, D1127		EC11FS4	C1214-C1217, C1227-C1230	ACE1163	
D1103, D1118, D1124	, D1125, D1130	FCU20A30	C1233	ACE1169	
D1113, D1129		FCU20A30H	C1244 C1209 (0.1microF/630V)	ACE1170	
D1110, D1123		UDZS16B	C1209 (0.1microF/630V) C1219, C1231	ACG1092 ACH1358	_
COILS AND FILTE	RS		01210, 01201	7.0.11000	
L1103, L1105	110	ATH1119	C1224	CEHAT101M16	
L1104		ATH1155	C1301	CEHAT221M25	
L1102		ATH1156	C1203, C1207, C1210, C1220, C1223	CEHAT470M25	
L1101		LFEA470J	C1238, C1239	CEHAT470M25	
			C1235	CKSRYB102K50	С
CAPACITORS			C1012 C1005 C1040 C1041 C1042	CKCDVD104K16	_
C1112-C1114, C1125		ACE1168	C1213, C1225, C1240, C1241, C1243 C1202, C1205, C1206, C1212, C1302		
C1111, C1124 (100pF		ACG1104	01202, 01203, 01200, 01212, 01302	ONSITT 104230	
C1109, C1119 (0.1mic		ACG1108	<u>RESISTORS</u>		
C1101, C1105, C1116 C1128, C1130-C1132		CCSRCH331J50 CKSRYB104K16	R1230	ACN1166	
C1128, C1130-C1132 C1102, C1118		CKSRYB105K6R3	R1208, R1321, R1322	ACN1174	
C1104, C1108, C1115	C1122	CKSYB105K25	R1304	ACN1195	
	,		R1305	ACN1198	
RESISTORS			R1301, R1302, R1314	RS1/10S122J	
R1116, R1122		RS1/10S1003F	D1000 D1051	DC4MME004 I	
R1133, R1143-R1145		RS1/10S100J	R1226, R1251 R1235, R1236	RS1MMF331J RS2MMF121J	_
R1103, R1106, R1110		RS1/10S2R2J	Other Resistors	RS1/16S###J	D
R1118, R1119, R1123	, R1126, R1153	RS1/10S2R2J	0.1.0.1.00.00.0		
R1136		RS1/16S1202F	<u>OTHERS</u>		
R1139		RS1/16S3301F	KN1201-KN1205, KN1208-KN1214	ANK-142	
R1130		RS1/16S5601F	GROUND PLATE		
R1134		RS1/16S8201F	CN1201 12P TOP POST	B12B-EH	
R1113, R1128		RS1MMF101J			_
VR1101-VR1104		CCP1390	ITO V D D CON DI COVI		
			[50 X D-D CON BLOCK]		
Other Resistors		RS1/16S###J	<u>SEMICONDUCTORS</u>	ANI 404M	
OTHERS			IC1404 IC1402	AN1431M MIP161	
OTHERS		A = 1.14.0-7.5	IC1402 IC1401, IC1403	TLP181(P-GR)	Е
3301 SPACER 3501 SCREW		AEH1075 PMH30P080FMC	Q1401	2SA1037K	
3301 SONEW		FIVILIBUTUOUTIVIC	Q1402	2SC2412K	
[50 X SUS BLOCK]			D1407, D1408	EC11FS2	
SEMICONDUCTOR	RS		D1404	EC8FS6	_
IC1202		HCPL-M611	D1401, D1403	UDZS5.6B	
IC1205		NJM2872F05	COILS AND FILTERS		
		STK795-512		ATU1110	
IC1203, IC1207		TLP181(P-GR)	L1401 T1401	ATH1110 ATK1153	
IC1203, IC1207 IC1208		TND301S	וידוו	7.11.11.100	
IC1203, IC1207					
IC1203, IC1207 IC1208 IC1204, IC1206		2SC2412K	CAPACITORS		F
IC1203, IC1207 IC1208 IC1204, IC1206 Q1207		2SC2412K 2SD1898	CAPACITORS C1401, C1402	ACH1361	F
IC1203, IC1207 IC1208 IC1204, IC1206		2SC2412K 2SD1898 2SJ522		ACH1361 CEHAT101M16	F
IC1203, IC1207 IC1208 IC1204, IC1206 Q1207 Q1203		2SD1898	C1401, C1402		F
IC1203, IC1207 IC1208 IC1204, IC1206 Q1207 Q1203 Q1302		2SD1898 2SJ522	C1401, C1402 C1404 C1405	CEHAT101M16	
IC1203, IC1207 IC1208 IC1204, IC1206 Q1207 Q1203 Q1302		2SD1898 2SJ522	C1401, C1402 C1404	CEHAT101M16	F 57

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	Mark No.	Description	Part No.	<u>N</u>	lark No.	Description	Part No.
	C1409 C1403, C1407, C	C1408, C1411	CEHAT331M16 CKSRYB104K16		SEMICONDU	ANCE BLOCK] JCTORS	
Α	C1406		CKSRYF104Z50		IC2211 IC2201, IC220 Q2213	02	BA10393F TND506MD 2SC2412K
	RESISTORS R1405, R1406, F R1420	R1408-R1410, R1414	RS1/10S3602F RS1/16S1101F		Q2202, Q221	1, Q2212, Q2214 6, Q2208, Q2209	2SK3560 2SK3723
	R1403 R1401, R1404		RS1/16S2702F RS1/16S4701F		D2209, D2223		CPH5506 1SS302
	R1417 VR1401		RS1/16S7500F CCP1390			2 , D2207, D2208 I, D2216-D2219, D2222	1SS355 EC11FS4 EC11FS4
	Other Resistors		RS1/16S###J		D2226, D2227	, 6, D2211, D2220, D2229	EC11FS4 FCU20A30
В	RESISTORS Other Resistors		RS1/16S###J		D2215, D2228 D2210, D2224	3	FCU20A30H UDZS16B
			H51/105###J				0023100
•	OTHERS 1002 CARD SP/ 1001 DRIVE SIF 1001 PLATE X 1001 DRIVE HE 1001 SCREW	RICON SHEET	AEC1957 AEH1062 ANG2622 ANH1613 BMZ30P080FZK	<u>.</u>	COILS AND L2203, L2205 L2204 CHOKE L2202 CHOKE L2201	CHOKE COIL COIL	ATH1119 ATH1155 ATH1156 LFEA470J
С	1002 SCREW	SENSOR ASS	PMB30P060FNI	<u>(</u>	C2211, C2224 C2210, C2223	S , C2225-C2227 I (100pF/630V) B (0.1microF/630V) G, C2216, C2217	ACE1168 ACG1104 ACG1108 CCSRCH331J50
	SEMICONDUC		MM1522XU		C2230, C2232	2, C2233, C2235	CKSRYB104K16
	IC1071 CAPACITORS		MM3012XN		C2203, C2218 C2201, C2208	3 3, C2215, C2219	CKSRYB105K6R3 CKSYB105K25
	C1075		ACH1357	ļ	RESISTORS		
	C1074 C1071, C1076 C1072, C1073		CKSRYB103K50 CKSRYB104K16 CKSRYF105Z10		•		RS1/10S1003F RS1/10S100J RS1/10S2R2J RS1/10S2R2J
D	RESISTORS R1076, R1078 Other Resistors		RS1/16S1001F RS1/16S###J		R2234		RS1/16S1202F RS1/16S3301F
	EOV DDI	VE ASSY			R2233 R2242 R2215, R2230		RS1/16S5601F RS1/16S8201F RS1MMF101J
	[50 Y LOGIC BL	OCK]			VR2201-VR22		CCP1390
	SEMICONDUC IC2002 IC2001, IC2003	CTORS	TC74ACT540FT TC74ACT541FT	9	Other Resistor		RS1/16S###J
Е	IC2005 IC2004 Q2001		TC74VHC08FT TC74VHC541FT DTC124EK		3301 SPACEI 3501 SCREW		AEH1075 PMH30P080FMC
	CAPACITORS C2001		CEHAT470M16	_	50 Y SUS BLO SEMICONDU	JCTORS	
	C2010, C2011 C2002-C2006 RESISTORS		CKSRYB104K16 CKSRYF104Z50		IC2302, IC230 IC2305 IC2303, IC230 IC2301, IC230 Q2310)7	HCPL-M611 NJM2872F05 STK795-513 TND301S 2SC2412K
		R2013-R2015 R2012, R2016, R2017			Q2303, Q2307 Q2301	7	2SD1898 2SJ522
F	Other Resistors OTHERS		RS1/16S###J		Q2302, Q2308 Q2309	3, Q2312	2SK3325-Z HN1B04FU
	CN2001		AKM1201		D2302		1SS302
	58		PE	DP-504CMX			

PDP-504CMX

lark No. Description	Part No.	Mark No. Description	Part No.	
	EC10QS04	IC2401	MIP0223SC	
D2319, D2320	EC10QS04 EC11FS4	IC2401 IC2402-IC2405, IC2407-IC2409		
D2305 D2301	UDZS16B	Q2402, Q2407	TLP181(P-GR)	
D2306, D2318	UDZS16B	Q2402, Q2407	2SA1037K	
D2300, D2316	UDZ33.0B	Q2410	2SA1163	
OILS AND FILTERS		Q2417	2SA1103 2SA1535	
	ATI 14440	Q2417 Q2411-Q2414, Q2416	2SC2412K	
L2306, L2307	ATH1112	Q2405	2SC2713	
L2304	LFEA100J	Q2403	2SD1664	
L2308	LFEA101J	Q2+00	2001004	
L2301, L2302, L2305	LFEA470J	Q2401, Q2404	2SD1898	
A DA OLTODO		Q2415	HN1C01FU	
APACITORS		D2430	1SS301	
C2309-C2312, C2326, C2327	ACE1163	D2410, D2419, D2436	1SS302	
C2329, C2330	ACE1163	D2409, D2418	1SS355	
C2314	ACE1165	D2400, D2410	100000	
C2302	ACG1092	D2404-D2407	EC11FS2	
C2316, C2331	ACH1358	D2403, D2414	EC11FS4	
		D2403, D2414 D2402	EC8FS6	
C2303	ACH1361	D2402 D2427	RD91PA	
C2336	ACH1393	D2427 D2401	U1ZB330	
C2306, C2334	CEHAT221M25	DZ T O I	0120000	
C2308, C2324, C2339, C2340	CEHAT470M16	D2412, D2413, D2422	UDZS15B	
C2304, C2320, C2338	CEHAT470M25	D2412, D2413, D2422 D2425, D2426	UDZS13B UDZS27B	
		D2425, D2426 D2415	UDZS27B UDZS33B	
C2305, C2322, C2323, C2325, C2333	CKSRYB104K16	D2415 D2432	UDZS33B UDZS4.3B	
C2341	CKSRYB104K16	D2432 D2423, D2431	UDZS4.3B UDZS5.6B	
C2301, C2307, C2328	CKSRYF104Z50	D2423, D243 I	UDZ33.0D	
		COILS AND FILTERS		
<u>ESISTORS</u>			4 -1/1/1-0	
R2332	ACN1166	T2402	ATK1156	
R2364, R2365	ACN1174	T2403	ATK1157	
R2309	RS1MMF132J	T2401	ATK1158	
R2310, R2311	RS1MMF472J	L2402	LFEA100J	
R2312-R2314, R2322, R2323	RS3LMF100J	L2401	LFEA101J	
R2348, R2352, R2358, R2359	RS3LMF1R8J	L2403	LFEA470J	İ
Other Resistors OTHERS	RS1/16S###J			
KN2301-KN2305, KN2310-KN2312	ANK-142	CAPACITORS		
KN2314-KN2316 GROUND PLATE	ANK-142		ACH1360	
CN2301 11P TOP POST	B11B-EH	C2406 C2401	ACH1360 ACH1361	
				ı
		C2427 C2403	CEHAT100M50	
0 Y SCAN BLOCK]			CEHAT101M16	
EMICONDUCTORS		C2405, C2407, C2417	CEHAT101M25	
IC2101, IC2103-IC2106,IC2108,IC2109	HCPL-M611	C2414	CELIATOO4 N 44 C	
IC2102, IC2107	TC74ACT540FT	C2414	CEHAT221M16	
	. 5	C2410	CEHAT221M25	
OILS AND FILTERS		C2411	CEHAT331M25	
	LEEA100 L	C2420	CEHAT470M2A	
	LFEA100J	C2409, C2419	CKSRYB103K50	
L2101-L2103				
L2101-L2103		00400 00440 00440 00400 00400	OKODYD404K40	
L2101-L2103 APACITORS	AOULAGOS	C2402, C2412, C2413, C2423, C2425		
L2101-L2103 APACITORS C2104, C2111, C2116, C2117	ACH1392	C2431, C2432, C2434-C2436	CKSRYB104K16	
L2101-L2103 APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113	CEHAT221M16	C2431, C2432, C2434-C2436 C2441-C2443	CKSRYB104K16 CKSRYB104K16	ı
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106	CEHAT221M16 CKSRYB104K16	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3	ı
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113	CEHAT221M16	C2431, C2432, C2434-C2436 C2441-C2443	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3	1
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114	CEHAT221M16 CKSRYB104K16	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50	ı
L2101-L2103 APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS	CEHAT221M16 CKSRYB104K16 CKSRYB104K16	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3	I
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50	I
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS	CEHAT221M16 CKSRYB104K16 CKSRYB104K16	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50	
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50	
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F	1
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F	
L2101-L2103 APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors THERS	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404 R2442	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F RS1/16S1201F	
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors THERS	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F	
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors THERS CN2101, CN2102 15P CONNECTOR	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404 R2442 R2468	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F RS1/16S1201F RS1/16S1202F	
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors THERS CN2101, CN2102 15P CONNECTOR	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404 R2442 R2468	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F RS1/16S1201F	ı
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors THERS CN2101, CN2102 15P CONNECTOR 60 Y D-D CON BLOCK] EMICONDUCTORS	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404 R2442 R2468	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F RS1/16S1201F RS1/16S1202F	
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors THERS CN2101, CN2102 15P CONNECTOR 60 Y D-D CON BLOCK] EMICONDUCTORS IC2410-IC2412	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J AKM1200	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404 R2442 R2468	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F RS1/16S1201F RS1/16S1202F	ı
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors THERS CN2101, CN2102 15P CONNECTOR 60 Y D-D CON BLOCK] EMICONDUCTORS	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404 R2442 R2468 R2424 R2420, R2427, R2438	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F RS1/16S1201F RS1/16S1202F RS1/16S2001F RS1/16S2201F	ı
APACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 ESISTORS R2121, R2128 Other Resistors THERS CN2101, CN2102 15P CONNECTOR 60 Y D-D CON BLOCK] EMICONDUCTORS IC2410-IC2412	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J AKM1200	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404 R2442 R2468 R2424 R2420, R2427, R2438 R2467	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F RS1/16S1201F RS1/16S1201F RS1/16S2001F RS1/16S201F RS1/16S3301F	I
CAPACITORS C2104, C2111, C2116, C2117 C2101, C2107, C2113 C2102, C2103, C2105, C2106 C2108-C2110, C2112, C2114 RESISTORS R2121, R2128 Other Resistors OTHERS CN2101, CN2102 15P CONNECTOR 60 Y D-D CON BLOCK] SEMICONDUCTORS IC2410-IC2412	CEHAT221M16 CKSRYB104K16 CKSRYB104K16 RAB4C472J RS1/16S###J AKM1200 AN1431M BA10358F	C2431, C2432, C2434-C2436 C2441-C2443 C2415, C2421, C2428 C2404, C2408, C2416, C2418, C2426 C2429 RESISTORS R2429 R2435, R2439 R2402-R2404 R2442 R2468 R2424 R2420, R2427, R2438 R2467	CKSRYB104K16 CKSRYB104K16 CKSRYB105K6R3 CKSRYF104Z50 CKSRYF104Z50 ACN1225 RS1/10S2202F RS1/10S3902F RS1/16S1201F RS1/16S1201F RS1/16S2001F RS1/16S201F RS1/16S3301F	ı

	Mark No.	Description	Part No.	<u>N</u>	lark No.		Description	Part No.
	R2506		RS3LMF151J					
				<u>F</u>	RESIST	ORS		
	VR2401, VR2402	2	CCP1390		R7402, I	R7405,	R7417	RAB4CQ101J
Α	Other Resistors		RS1/16S###J		R7426			RAB4CQ103J
	OTHERS				R7480			RS1/10S1R5J
	OTHERS	•	ANII 14 C4 4		R7412, I			RS1/16S1001F
	2401 HEATSINK 2401 SCREW	<u>.</u>	ANH1614 BBZ30P080FZK		H/43/, I	H7439,	R7467, R7469, R7476	RS1/16S1002F
	2002 CARD SPA	CER	AEC1957		R7461			RS1/16S1501F
	2001 DRIVE SIF		AEH1062		R7422			RS1/16S1800F
-	2001 PLATEY		ANG2557		R7440, I	R7445		RS1/16S2201F
					R7477			RS1/16S2202F
	2001 DRIVE HE	ATSINK A	ANH1613		R7484			RS1/16S3301F
	2001 SCREW 2002 SCREW		BMZ30P080FZK PMB30P060FNI		R7438			RS1/16S4700F
	2002 SCHEW		FINIDOUFUUTINI		R7465			RS1/16S4700F
В					R7460			RS1/16S6201F
					R7447			RS1/16S7500F
	RGB AS	SY			R7478			RS1/16S8201F
	[RGB BLOCK]							
	SEMICONDUC	TORS			Other Re	esistors		RS1/16S###J
_	IC7411		BD6522F		OTHERS	•		
	⚠ IC7412		M5291FP	_	CN7405		IIIC	AKM1203
	IC7402		MM1522XU		CN7403			AKM1232
	IC7401		MM3012XN		CN7410			AKM1270
	IC7404		NJM12904V					
	⚠ IC7408, IC7409		PQ05DZ11					
С	⚠IC7405, IC7410		PQ20WZ11		MAIN LF			
	⚠ IC7406, IC7407		PQ3DZ13	<u> </u>	SEMICO	NDUC	CTORS	
	IC7403		TC74VHC08FT		IC6402			AN5870SB
	Q7405		2SA1586		IC6404 IC6403			BA7078AF BA7657F
	07407 07400 0	7440 07444			IC6403			SM5301BS
_	Q7407, Q7408, C Q7404	2/410, Q/411	HN1A01FU HN1C01FU		IC6407			TC74VHC08FT
	Q7401		RN1901					
	Q7409		RN1902		IC6405			TC74VHC125FT
	D7408		1SS301		Q6419-0			2SA1586
					Q6407,		Q6408, Q6410, Q6412	DTC124EUA
	D7407, D7409-D	7414	1SS355		D6404	, 0040k	Q0400, Q0410, Q0412	HN1B04FU 1SS302
D	D7415, D7416		EC11FS2		20.0.			.0000_
_	COILS AND FI	LTERS			COILS A	ND F	ILTERS	
	L7401		ATH1125		L6401			LCTAW4R7J2520
					L6402			LCTAWR68J2520
	CAPACITORS							
_	C7408		ACH1357	<u>C</u>	CAPACI			
	C7414, C7419, C	7434, C7437	ACH1374		,	,	C6437, C6462, C6469 C6406, C6427, C6428	ACH1357 ACH1391
	(100/25V) C7447, C7450 (4	7mioro E/16\/\	ACU1201		C6431			ACH1391
	C7447, C7430 (4	,	ACH1391 ACH1394				C6424 (100microF/16V)	
	(100microF/16V	•	.10111007		C6433			ACH1399
	`	7426, C7432, C7445	ACH1396					
Е	(100microF/6.3\	,			C6439	(22micro	oF/16V)	ACH1400
	C7452 (100micro	,	ACH1396		C6445 C6435, (C6467	C6469	CCSRCH151J50 CCSRCH470J50
	C7403 (22microl C7428, C7429, C	,	ACH1400 CCSRCH221J50				C6404, C6414, C6415	CKSRYB103K50
	C7440, C7459-C		CKSRYB102K50		,	,	C6430, C6432, C6438	CKSRYB103K50
	C7407, C7409, C		CKSRYB103K50					
_	,						C6451, C6454, C6456	CKSRYB103K50
	C7457, C7458		CKSRYB103K50		-	C6461,	C6470-C6476	CKSRYB103K50
	C7436		CKSRYB104K16		C6463	C6/11	C6412, C6421, C6455	CKSRYB104K25 CKSRYB105K6R3
	C7446 C7413, C7435		CKSRYB821K50 CKSRYF104Z50		C6408, 0		00+12, 00421, 00400	CKSRYB105K6R3
	C7413, C7435 C7402, C7410		CKSRYF104Z50 CKSRYF105Z10		20.07,			2.10.1.210010110
	J. 10L, J/110		5		C6458			CKSRYB471K50
F	C7404-C7406, C	7411, C7412, C7415	CKSSYF104Z16		C6443			CKSRYB474K10
		7422, C7425, C7427	CKSSYF104Z16		C6442	00445	00440 00440 0045	CKSRYB562K50
		7439, C7441-C7444	CKSSYF104Z16			,	C6413, C6418-C6420 C6434, C6440, C6441	CKSSYF104Z16 CKSSYF104Z16
	C7449, C7451		CKSSYF104Z16		O0420, (JU420,	00404, 00440, 0044 I	ONOG 11 104Z 10
	60			PDP-504CMX				
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<u>lark No. </u>	Part No.	Mark No. Description	Part No.	
C6444, C6447, C6448, C6450	CKSSYF104Z16	Q6603, Q6604	DTC124EUA	
C6452, C6453	CKSSYF104Z16	Q6605	HN1B04FU	
DECICTORS.		OOU C AND FUTERO		
RESISTORS	DAD 400 470 I	COILS AND FILTERS	ATE 440.4	,
R6489	RAB4CQ470J	F6601	ATF1194	
R6422	RS1/16S1101F	L6701	LCTAWR68J2520	
R6526-R6528	RS1/16S2200F			
R6428, R6429	RS1/16S3000F	<u>CAPACITORS</u>		
R6547-R6549	RS1/16S75R0F	C6635-C6637, C6640	ACH1357	
		C6633 (10microF/16V)	ACH1399	
Other Resistors	RS1/16S###J	C6644	CCSRCH151J50	
		C6638	CKSRYB103K50	
<u>OTHERS</u>		C6604, C6624	CKSRYB104K16	
K6401-K6406 TEST PIN	AKX9002			
CN6402 6P PLUG	KM200NA6	C6648	CKSRYB104K25	
		C6608, C6611, C6612, C6621	CKSRYB105K6R3	
		C6630-C6632	CKSRYB105K6R3	
MAIN AD BLOCK]		C6646, C6656-C6661	CKSRYB471K50	
EMICONDUCTORS		C6609, C6614, C6623	CKSRYB473K16	
IC6001	CXA3516AR			
IC6002-IC6008	TC74LCX541FT	C6642	CKSRYB474K10	
Q6001	2SC4116	C6641	CKSRYB562K50	
D6001	1SS355	C6602	CKSRYB822K50	
20001	100000	C6601	CKSRYB823K16	
OILS AND FILTERS		C6605-C6607, C6610, C6613	CKSSYF104Z16	
	LOTAMORO IOCOS	•		
L6001	LCTAWR68J2520	C6615-C6620, C6625-C6629, C6634	CKSSYF104Z16	
A DA OLTO DO		C6639, C6643, C6645, C6647	CKSSYF104Z16	
APACITORS		C6649-C6655	CKSSYF104Z16	
C6001, C6005, C6010, C6028, C6041				(
C6043, C6051, C6054 (100microF/6.3	3V) ACH1396	RESISTORS		
C6020	CCSRCH101J50	R6699-R6710, R6723-R6728	RAB4CQ0R0J	
C6011	CCSRCH220J50	R6729-R6734	RAB4CQ101J	
C6017	CCSRCH331J50	R6608, R6613, R6621, R6627	RAB4CQ470J	
		R6643, R6644, R6667-R6672	RAB4CQ470J	
C6003, C6018, C6024, C6025	CKSRYB105K6R3			1
C6033, C6034, C6037, C6038, C6045	CKSRYB105K6R3	R6676-R6678, R6681-R6685	RAB4CQ470J	
C6062-C6068	CKSRYB471K50	Doore Doore Doore	D04/4004000E	
C6002, C6004, C6006-C6009	CKSSYF104Z16	R6612, R6619, R6620	RS1/16S1000F	
C6012-C6016, C6021-C6023	CKSSYF104Z16	R6625	RS1/16S1101F	
•		R6607, R6611, R6626	RS1/16S1300F	
C6026, C6027, C6029-C6032	CKSSYF104Z16	R6601	RS1/16S2701F	
C6035, C6036, C6039, C6040, C6042		Other Resistors	RS1/16S###J	
C6044, C6046-C6050, C6052, C6053				
C6055-C6061	CKSSYF104Z16	<u>OTHERS</u>		
		K6601-K6607 TEST PIN	AKX9002	
ESISTORS				
R6001, R6004, R6013, R6014	RAB4CQ100J			
R6020, R6021, R6024, R6027, R6033		[BUS SW1 BLOCK]		
R6038. R6044. R6054	RAB4CQ100J	SEMICONDUCTORS		
R6073-R6085	RAB4CQ330J	IC5701	PD6435A	
R6023	RN1/16SE3001D			
110020	THE PRODUCTO	CAPACITORS		
D6019	DQ1/1690001F		ACU1201	
R6018	RS1/16S2201F RS1/16S2701F	C5701 (47microF/16V)	ACH1391	
R6016		C5709, C5710	CCSRCH150J50	
R6019 Other Registers	RS1/16S3301F	C5721-C5737	CKSRYB103K50	
Other Resistors	RS1/16S###J	C5702-C5708, C5711, C5712	CKSSYF104Z16	
TUEDO		C5714-C5718	CKSSYF104Z16	
THERS		DECICTORS		
K6001-K6007, K6010-K6013 TEST P	'IN AKX9002	RESISTORS		
		R5703-R5706, R5708-R5712, R5714	RAB4CQ100J	
		R5717, R5721, R5735, R5739-R5750		
SUB LPF & AD BLOCK]		R5755, R5756, R5762, R5763	RAB4CQ100J	
EMICONDUCTORS		R5768-R5771	RAB4CQ100J	
IC6602	AD9883AKST-110	R5728-R5734, R5782-R5787	RAB4CQ103J	
IC6604	BA7078AF			
IC6601	SM5301BS	Other Resistors	RS1/16S###J	
IC6608-IC6614	TC74LCX541FT		-	
IC6605	TC74LCX541F1	OTHERS		
100000	10/41/000FT	CN5701 120P PCI BUS SOCKET	AKP1220	
IC6603, IC6607	TC74VHC125FT	X5701 CERAMIC RESONATOR	ASS1169	
100003, 100007	10/41/10/2011	ASTOT OLITABILO RESOLVATOR	A001103	
		PDP-504CMX		61
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Mark No. Description	Part No.	Mark No. Description	Part No.
[BUS SW2 BLOCK]	<u> </u>	R7154	RAB4CQ470J
SEMICONDUCTORS		Other Resistors	RS1/16S###J
IC5801	PD6435A		
		<u>OTHERS</u>	
<u>CAPACITORS</u>		CN7101 114P FFC CONNECTOR	AKM1216
C5801 (47microF/16V)	ACH1391	K7101, K7102 TEST PIN	AKX9002
C5809, C5810	CCSRCH150J50		
C5802-C5808, C5811, C5812 C5814-C5818	CKSSYF104Z16 CKSSYF104Z16	[IC3 FLASH BLOCK]	
C3614-C3616	CN331F104Z10	SEMICONDUCTORS	
RESISTORS		IC7152	MBM29PL3200BE70PFV
R5816-R5825, R5827, R5835, R5849	RAB4CQ100J		
R5852, R5854, R5856, R5858, R5860	RAB4CQ100J	<u>CAPACITORS</u>	
R5868-R5871, R5877	RAB4CQ100J	C7152, C7153, C7155-C7158, C7160	CKSSYF104Z16
R5802-R5808, R5812-R5814, R5831	RAB4CQ103J	C7162	CKSSYF104Z16
R5837, R5844, R5883	RAB4CQ103J	RESISTORS	
R5845, R5850, R5851, R5853, R5855	RAB4CQ470J	Other Resistors	RS1/16S###J
R5857, R5859, R5861-R5863, R5876	RAB4CQ470J	Other resistors	1101/100###0
Other Resistors	RS1/16S###J		
0-11-0		[MAIN UCOM BLOCK]	
<u>OTHERS</u>	100//00	<u>SEMICONDUCTORS</u>	
X5801 CERAMIC RESONATOR	ASS1169	IC7205	24LC128(I)SN
		IC7201, IC7204	74VHCT00AMTC
[IC2 BLOCK]		IC7207 IC7210	MB91F355APMTGE1 PST3612UR
SEMICONDUCTORS		IC7210 IC7203, IC7206	PST3628UR
IC7001, IC7002	HY57V643220CT-7		
IC7004	PE5362A	IC7209	TC74VHC08FT
IC7003	TC74LCX125FT	IC7202	TC74VHC125FT
COILS AND FILTERS		IC7208 Q7201	TC74VHCT541AFT 2SJ461A
F7001, F7002 EMI FILTER	ATF1194	Q7201 Q7202	DTC124EUA
17001, 17002 LIVII FILI LA	A11 1194		
CAPACITORS		D7202	1SS355
C7029, C7041 (100microF/6.3V)	ACH1396	D7203	SML-310MT
C7065	CCSRCH100D50	CADACITORS	
C7066-C7068	CCSRCH221J50	<u>CAPACITORS</u> C7205, C7236 (47microF/16V)	ACH1391
C7001-C7024, C7026-C7028 C7032-C7040, C7042-C7063	CKSSYF104Z16 CKSSYF104Z16	C7203, C7203 (47111101710V)	CCSRCH220J50
C7032-C7040, C7042-C7063	CN331F104Z10	C7213, C7218	CCSRCH7R0D50
C7031	DCH1165	C7248-C7251	CKSRYB102K50
<u>RESISTORS</u>		C7235, C7245	CKSRYB103K50
R7034	RAB4CQ470J	C7226, C7237	CKSRYB104K16
Other Resistors	RS1/16S###J	C7230, C7242	CKSRYB104K25
OTHERS		C7216	CKSRYB472K50
OTHERS K7001-K7003 TEST PIN	AKX9002	C7201, C7202, C7209-C7212	CKSSYF104Z16
X7001-K7003 TEST PIN X7001 (85MHz)	ASS1174	C7214, C7215, C7219-C7225	CKSSYF104Z16
77 00 1 (00 WH 12)	7,001174	C7227-C7229, C7232-C7234, C7238	CKSSYF104Z16
		C7240, C7241, C7243, C7244	CKSSYF104Z16
[IC3 BLOCK]		C7246, C7247	CKSSYF104Z16
<u>SEMICONDUCTORS</u>		,	
IC7102	24LC02B(I)SN	<u>RESISTORS</u>	
IC7101	PD5855A	R7231	RAB4CQ0R0J
COILS AND FILTERS		R7229	RAB4CQ101J
F7101, F7102	ATF1194	R7256 R7218, R7219, R7284-R7286, R7301	RAB4CQ103J RAB4CQ470J
, 102		R7309, R7311-R7314, R7317	RAB4CQ470J
<u>CAPACITORS</u>		,	
C7103, C7120, C7138 (100microF/6.3V	•	R7201	RAB4CQ472J
C7141	CCSRCH100D50	R7212, R7232	RS1/16S1202F
C7101, C7102, C7104-C7119 C7121-C7137, C7139, C7140, C7142	CKSSYF104Z16	Other Resistors	RS1/16S###J
0/121-0/13/, 0/139, 0/140, 0/142	UN3317104Z10	OTHERS	
<u>RESISTORS</u>		CN7201 8P PLUG	AKM1225
R7102, R7105-R7108, R7110, R7111	RAB4CQ330J	X7201 CERAMIC RESONATOR	ASS1170
R7128, R7129, R7132, R7133	RAB4CQ330J		
R7136, R7137	RAB4CQ330J		
62		04CMX	
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Ма	ark No. Description	Part No.		Mark No.	Description	Part No.	
	SIDE KEY ASSY				C7696, C7704, C7706	CKSSYF104Z16	
C				0.001, 0.002,	0.000, 00., 000	0.100.1.10.2.10	
	WITCHES AND RELAYS	1001000		C7708-C7711,	C7720	CKSSYF104Z16	
	S4801-S4811	ASG1088					Α
0	THERS			RESISTORS			
	CN4801 8P CONNECTOR	AKM1207		R7751-R7753		RS1/16S2200F	
	CN4601 OF CONNECTOR	ANIVITZUT		R7712, R7725		RS1/16S2201F	
				R7699-R7701, I		RS1/16S27R0F	
	AV I/O ASSY			R7653, R7654,	R7673, R7674	RS1/16S3301F	
F A				R7709-R7711		RS1/16S75R0F	
_	V I/O ASSY]			Other Resistors		RS1/16S###J	
	EMICONDUCTORS			Other nesistors		NO 1/100###J	
	IC7609	24LCS21A		OTHERS			
	IC7610, IC7613 IC7602, IC7605-IC7607	AN5870SB BA4558F-HT		CN7602, CN760	US WINI IACK	AKN1069	
	IC7603	BD3869AF		,	7 15P D-SUB SOCKET		
	IC7604	NJM78L09UA		CN7601 15P P		KM200NA15	В
•		1101117 020007 (
	IC7601, IC7608	TC4052BFT					
	IC7612	TC74AC04FT		[IF UCOM BLO	CK]		
	IC7611	TC74VHCT541A	FT	SEMICONDU	CTORS		
	Q7602, Q7605, Q7702	2SC4116		IC8705		24LC01B	
	Q7603	DTA124EUA		IC8702		HD64F3687FP	
				IC8703		PST9230N	
	Q7604, Q7606-Q7608	DTC124EUA		IC8701		TC74VHC08FT	
	Q7701	HN1C01FU		IC8704		TC7W126FU	
	Q7601 Q7609	RN1902 SM6K2		00704		00.1404.4	
	D7601	1SS301		Q8701		2SJ461A	
	27001	100001		Q8708 Q8702		DTA124EUA DTC124EUA	С
	D7606-D7608, D7610, D7611	1SS302		Q0702		DTC124EUA	
	D7613, D7614, D7616, D7617	1SS302		COILS AND F	II TERS		
	D7619, D7701	1SS355		L8702	<u>ILI LIIO</u>	LCTAWR68J2520	
	D7602, D7603, D7605, D7609	UDZS5.6B		L0702		LO 1AVVI 10002520	
	D7604	UDZS6.8B		CAPACITORS			_
_				C8706, C8707	<u> </u>	CCSRCH120J50	
	APACITORS			C8708, C8714		CEHAT470M16	
	C7633, C7634	CCSRCH101J50		C8704, C8718		CEHAT471M6R3	
	C7673, C7674	CCSRCH220J50		C8717, C8720		CKSRYB103K50	
	C7631, C7632	CCSRCH221J50		C8722-C8724		CKSRYB471K50	
	C7611, C7612 C7722	CCSRCH471J50 CEHAT100M50					_
	CITZE	CELIAI 1001VISO		C8709		CKSRYB472K50	D
	C7654	CEHAT101M10			C8705, C8711-C8713	CKSSYF104Z16	
	C7665	CEHAT101M16		C8715, C8716,	C8719, C8721, C8725	CKSSYF104Z16	
	C7623, C7648	CEHAT220M50					
	C7705	CEHAT221M6R3	i				
	C7714, C7716, C7718	CEHAT331M10		RESISTORS			
					R8723, R8724, R8726	RAB4C101J	
	C7619, C7635, C7637, C7695, C7697	CEHAT470M16		R8702, R8704,		RAB4C103J	
	C7721	CEHAT470M16		R8736	1107-10	RS1/16S1302F	
	C7681, C7686, C7690	CEHAT471M16		Other Resistors		RS1/16S###J	
	C7601, C7602, C7609, C7610, C7614 C7616, C7638, C7639, C7643, C7653	CKSQYB225K10 CKSQYB225K10					
	0.010, 0.000, 0.000, 0.000, 0.000	UNUQ I DZZJN I		OTHERS			Е
	C7627-C7630, C7640, C7650	CKSRYB102K50		CN8701 8P PL	UG	AKM1225	_
	C7642, C7652, C7660, C7661, C7666	CKSRYB103K50		K8701-K8703 T	TEST PIN	AKX9002	
	C7676, C7680, C7685, C7689	CKSRYB103K50			IIC RESONATOR	ASS1168	
	C7698-C7703, C7707, C7712, C7713	CKSRYB103K50		X8701 (32.768)	,	ASS1172	
	C7715, C7717	CKSRYB103K50		CN8704 6P PLI	JG	KM200NA6	
	C7621, C7622	CKSRYB104K16					_
	C7603, C7620, C7662, C7663, C7667	CKSRYB105K10		[DVI BLOCK]			
	C7675, C7677, C7678, C7684 C7693, C7694, C7723	CKSRYB105K10		SEMICONDU	CTO DS		
	C7693, C7694, C7723 C7641, C7651	CKSRYB222K50			<u>cions</u>	041 0001 4	
	0.011, 0.001	JAGITI DEZERIO		IC7502 IC7511		24LCS21A BD6522F	
	C7646, C7656	CKSRYB471K50		IC7503		SII1161CTG100	F
	C7617, C7618, C7624-C7626, C7636	CKSSYF104Z16		IC7504-IC7510		TC74LCX541FT	
	C7644, C7647, C7649, C7655, C7664	CKSSYF104Z16		Q7503		DTA124EUA	
	C7668, C7679, C7682, C7683, C7687	CKSSYF104Z16					
			DDD 50	4CMV			63
_	5 -	6	PDP-50	4CMX 7	_	8	
-	J =	O	_	,		o	-

	Mark No. De	scription	Part No.		Mark No.	Description	Part No.
	Q7501, Q7502	•	DTC124EUA		C5055-C5058	•	CKSRYB104K25
	D7501		1SS301		C5043, C5044		CKSRYB222K50
	D7503, D7504		1SS302				
Α	D7502		UDZS6.8B		<u>RESISTORS</u>		
	O A DA OITO DO				R5049-R5052		RD1/4MUF2R2J
	CAPACITORS		0000011101100		R5053-R5056		RS1/10S5R6J
	C7524, C7526, C7530		CCSRCH101J50		R5001	DE000 DE010	RS1/16S1502F
	C7534, C7535, C7537 C7541, C7542, C7546		CCSRCH101J50 CCSRCH101J50		R5005, R5006, R5003, R5004,		RS1/16S3301F RS1/16S6801F
_	C7504, C7507	5, 07540-07550	CCSRCH221J50		113003, 113004,	113007, 113000	1131/10300011
	C7528, C7578, C7579	9	CEHAT101M10		Other Resistors	3	RS1/16S###J
	C7522		CEHAT221M6R3		OTHERS		
	C7522 C7502, C7510, C7516	S C7518	CEHAT470M16		OTHERS CN5002 6P L-	TVDE DLUC	KMOOONIAG
	C7503, C7506	3, 07010	CKSRYB222K50		5001 SCREW	I TPE PLUG	KM200NA6 VBB30P100FNI
_	C7514, C7520, C7573	3-C7577	CKSRYB471K50		KN5001, KN50	02	VNF1084
В	C7501, C7509, C7513	3, C7515, C7517	CKSSYF104Z16		(WRAPPING		
	C7519, C7521, C7523	B. C7525. C7527	CKSSYF104Z16				
	C7529, C7531, C753		CKSSYF104Z16				
	C7539, C7540, C7540		CKSSYF104Z16		COMM	SLOT ASSY	
	C7551-C7559		CKSSYF104Z16				
					SEMICONDU IC9451	CIURS	SP3232ECY
	<u>RESISTORS</u>				IC9451 IC9452, IC9454	Ī	TC74VHC00FT
	R7560-R7565, R7568		RAB4CQ0R0J		IC4953, IC4955		TC74VHC125FT
	R7524-R7529, R7536 R7552-R7555	i, R/540	RAB4CQ100J RAB4CQ100J				
	R7578-R7590		RAB4CQ100J		CAPACITORS	3	
	R7538		RS1/16S3900F		C9455	_	CEJQ470M6R3
С					C9452, C9469-		CKSRYB471K50
	Other Resistors		RS1/16S###J			C9454, C9456-C9458	CKSSYF104Z16
					C9462, C9467,	C9468	CKSSYF104Z16
	<u>OTHERS</u>				RESISTORS		
	CN7501 STEREO M		AKN1069		Other Resistors		RS1/16S###J
	CN7503 24P DVI TEI	HIMAL	AKP1216		Otrici ricolotore	•	1101/100###0
					OTHERS		
					3500 SCREW		ABA1295
	AUDIO AME	PASSY			3330 RIVET		AEP-211
	SEMICONDUCTO				JA9453 9P D-9		AKP1240
	IC5002	<u></u>	BA4558F-HT			2 6P MINI DIN JACK	AKP1254
D	∴IC5003		LA4625		3334 PROTEC	I SHEET 92	AMR3396
	⚠IC5004		PQ12DZ11		3214 SLOT PA	NFI 92	ANG2611
	⚠IC5001		SI-8120S			N HEADED SCREW	BBA1051
	Q5005, Q5007, Q500	8	2SA1586		9451 SCREW	TERMINAL	VNE1949
	Q5001, Q5009		2SC4116		SEMICONDU	CTORS	
	Q5011, Q5012		2SD2114K		IC8901	CIONS	TC74VHC00FT
	Q5013		DTA124EUA		Q8902		2SC4116
	D5003 D5001		1SS301 1SS302		Q0002		2001110
	D3001		133302		COILS AND F	ILTERS	
	D5002		1SS355		L8901		LCTAW221J3225
Е	D5005		RK46				
_					CAPACITORS	<u> </u>	
	COILS AND FILTE	RS			C8902		CKSRYB104K25
	L5002		ATH1159		C8901		CKSSYF104Z16
	CAPACITORS				RESISTORS		
	C5049, C5080		CEHAT101M16		Other Resistors	.	RS1/16S###J
	C5045, C5060		CEHAT220M50				
	C5010		CEHAT221M10		OTHERS		
	C5022		CEHAT222M16		CN8904		AKP1252
	C5047, C5048, C508	1	CEHAT2R2M50		`	DGE CONNECTOR)	
	0		0=114=		CN8902 10P L		KM200NA10L
F	C5050		CEHAT330M25		CN8903 11P L		KM200NA11L
Г	C5005-C5008, C5016 C5051)	CEHAT470M16 CEHATR47M50		CN8905 6P L	- I TPE PLUG	KM200NA6L
	C5051 C5019, C5020		CEHAZL471M25				
	C5002, C5004, C5017	7, C5027	CKSRYB103K50				
				DD =6 : 0: ::			
(64		P	DP-504CM	X		

PDP-504CMX

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Mark No. Description	Part No.	Mark No. Description	Part No.	
VIDEO SLOT I/F ASSY	·	IR RECEIVE ASSY	<u> </u>	
VIDEO CEOT WI ACCT	l.	SEMICONDUCTORS		
SEMICONDUCTORS		Q4901	2SC4116	
IC8952	24LC01B	D4902	1SS302	Α
Q8953	DTC124EUA	D4901	1SS355	
D8951, D8952	UDZS5.6B	CARACITORS		
COILS AND FILTERS		<u>CAPACITORS</u> C4905	CCSRCH101J50	
L8951	ATX1008	C4903 C4901	CEAT470M16	
20001	711741000	C4903	CKSRYB102K50	
<u>CAPACITORS</u>		C4907	CKSRYB103K50	
C8952	CEHAT470M16	C4902, C4904	CKSSYF104Z16	
C8953	CKSSYF104Z16	DECISTORS		
RESISTORS		RESISTORS Other Resistors	RS1/16S###J	
Other Resistors	RS1/16S###J	Other resistors	1101/100###0	В
Other nesisions	NO 1/ 100###0			
OTHERS		SP TERMINAL L ASS	Y	
CN8953 120P SOCKET	AKP1219	SEMICONDUCTORS		
CN8954 184P PCI BUS SOCKET	AKP1251	IC9752	MM1522XU	
CN8955 50P SOCKET	AKP1253	IC9751	MM3012XN	
KN8951, KN8952 GROUND PLATE CN8952 11P L-TYPE PLUG	ANK1664 KM200NA11L	0011 0 4110 511 7500		
0N0932 111 E-111 E1 E0G	NIVIZOONATTE	COILS AND FILTERS	ATE 4000	
		L9701, L9702	ATF1206	
		CAPACITORS		
KEY CONTROL ASSY	,	C9703, C9704	CCSRCH101J50	
<u>SEMICONDUCTORS</u>		C9706, C9708-C9711	CCSRCH221J50	С
IC9001	PD5719A	C9753, C9756	CEAT470M16	
Q9001	2SC4116	C9754	CKSRYB103K50	
D9001-D9003, D9005-D9008 D9004	1SS302 1SS355	C9752, C9755	CKSRYB105K10	
23004	100000	C9705	CKSRYB332K50	
CAPACITORS		C9707	CKSRYF473Z50	Ī
C9006-C9008	CCSRCH101J50	C9751, C9757	CKSSYF104Z16	_
C9005	CEAT470M16	DECICTORS		
C9001-C9003 C9004	CKSRYB472K50 CKSSYF104Z16	RESISTORS R9703, R9704	DD1/0MME100 I	
RESISTORS	CK551F104Z10	R9757, R9760	RD1/2MMF100J RS1/16S1001F	
R9008	RAB4C182J	Other Resistors	RS1/16S###J	
Other Resistors	RS1/16S###J	<u>OTHERS</u>		D
		CN9701 2P SPEAKER TERMINAL	AKE1041	
<u>OTHERS</u>		CN9702 6P PLUG	KM200NA6	
CN9002 8P FFC CONNECTOR	AKM1207			
X9001 CERALOCK CN9001 3P L-TYPE PLUG	ASS1162 KM200NA3L	SP TERMINAL R ASS	V	
CNOOL OF EATHER EDG	NIVIZOONACE	COILS AND FILTERS	•	
		L9801, L9802	ATF1206	
LED OPT ASSY		2001, 2002	711 1200	
SEMICONDUCTORS		<u>CAPACITORS</u>		
Q9652	DTC143EUA	C9804, C9805	CCSRCH101J50	
Q9051	HN1B04FU	C9801, C9808-C9811	CCSRCH221J50	Е
Q9651 D9051	RN2901 S9561	C9806 C9807	CKSRYB332K50 CKSRYF473Z50	
D9652	SML-310MT	0001	ONORTH 473230	
	-	RESISTORS		
D9651	SML-311UT	R9803, R9804	RD1/2MMF100J	
CADACITODO		Other Resistors	RS1/16S###J	
CAPACITORS	CCSDCU101 IF0	OTHERS		
C9652-C9655 C9054	CCSRCH101J50 CKSRYB103K50	OTHERS CNIGGO 2D SDEAKED	AKE1041	
C9052, C9055, C9056	CKSRYB105K10	CN9802 2P SPEAKER	AKE1041	
C9051, C9053, C9651	CKSSYF104Z16			
		COVER ASSY		
RESISTORS	D04/400 """ '	This assembly has no service part.		F
Other Resistors	RS1/16S###J	,		

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Mark No. Description	Part No.		Mark No.	Description	Part No.
AV I/O I/F ASSY			[PANEL FLASH	•	
OTHERS			SEMICONDU		
CN2101 120P PCI BUS SOCKET	AKP1220		IC5305		MBM29PL160BD-75PFTN
			IC5303 IC5301		PST3612UR PST3628UR
DIGITAL VIDEO ASSY			IC5302		TC74VHC08FT
[DIGITAL VIDEO ASST			Q5301		RN1901
COILS AND FILTERS			D5301-D5310		1SS302
F5001, F5002, F5004, F5005	ATF1194		D3301-D3310		100002
			CAPACITORS	<u>}</u>	
RESISTORS			C5320		CCSRCH470J50
R5101-R5115, R5131 Other Resistors	RAB4C470J RS1/16S###J		C5304, C5307 C5311, C5314		CKSRYB102K50 CKSRYB104K16
Other nesistors	N3 1/ 103###J		C5303, C5306		CKSRYB472K50
<u>OTHERS</u>				C5305, C5309, C5313	CKSSYF104Z16
CN5001 114P FFC CONNECTOR	AKM1216		05040		OKOOVE104710
CN5002 PH CONNECTOR K5002-K5004, K5007 TEST PIN	AKM1249 AKX9002		C5316		CKSSYF104Z16
N3002-N3004, N3007 TEST FIN	AKA9002		RESISTORS		
			R5317, R5318		RAB4C101J
[MODULE UCOM BLOCK]			Other Resistors	3	RS1/16S###J
<u>SEMICONDUCTORS</u>	0.41.00.417/(\)0.11		OTHERS		
IC5206 IC5201	24LC04B(I)SN M30626FHPGP-P		CN5301 15P P	PLUG	AKM1232
IC5205	PST3628UR		K5301 TEST P	riN	AKX9002
IC5208	TC74VHC08FT		⚠ X5302 (85MHz)		ASS1174
IC5213	TC74VHC123AFT		⚠ X5301 (60MHz))	ASS1176
IC5214, IC5215	TC74VHC32FT				
IC5211, IC5212	TC74VHC541FT		[IC4 BLOCK]		
IC5209	TC7W126FU		SEMICONDU	<u>CTORS</u>	
Q5201 D5207-D5212	2SJ461A 1SS301		IC5401 D5401		PD5856A SML-310LT
50207 50272	100001		D5401 D5402		SML-310MT
D5217, D5218	1SS355				
D5201	SML-310LT		COILS AND F		
SWITCHES			F5401, F5403,	F5409, F5410	ATF1194
S5201	ASH1047		CAPACITORS	6	
O A DA OITO DO			C5401, C5413,		ACH1396
<u>CAPACITORS</u> C5213, C5225	ACH1357		(100microF/16	SV)	01/07)/7 (001/00
C5213, C5223 C5206, C5223, C5231, C5245-C5262	CKSRYB102K50		C5434, C5435 C5402-C5412,	C5414-C5416	CKSRYB102K50 CKSSYF104Z16
C5264	CKSRYB102K50		C5418-C5423,		CKSSYF104Z16
C5232	CKSRYB104K16				
C5263	CKSRYB104K25		RESISTORS		DADAGAAA
C5230	CKSRYB105K6R3		R5406, R5421 R5408-R5413	R5415, R5416, R5419	RAB4C101J RAB4C220J
C5205	CKSRYB472K50		R5422	110+10, 110+10, 110+10	RAB4C220J
C5201-C5204, C5208, C5210-C5212 C5218, C5224, C5226, C5227	CKSSYF104Z16 CKSSYF104Z16		R5405		RS1/16S5601F
C5243, C5244	CKSSYF104Z16		Other Resistors	;	RS1/16S###J
			OTHERS		
RESISTORS	DAD40404 I		K5401 TEST P	NIN	AKX9002
R5209, R5211, R5212, R5235 R5254, R5255, R5265, R5266	RAB4C101J RAB4C101J				
R5205	RAB4C103J		[ADDRESS CN	BI OCKI	
R5270, R5271	RAB4C472J		Other Resistors	DLOOK	
R5256, R5257	RAB4C474J				
Other Resistors	RS1/16S###J		RESISTORS		DO1/400
			Other Resistors OTHERS	3	RS1/16S###J
OTHERS	AI/A4005		CN5521 50P C	CONNECTOR	AKM1201
CN5201 8P PLUG CN5202 PH CONNECTOR	AKM1225 AKM1242		^	08 40P CONNECTOR	AKM1217
K5201 TEST PIN	AKX9002		CN5511 30P C	ONNECTOR	AKM1218
⚠ X5201 (16MHz)	ASS1178				
66	DDD	504CN			

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В

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PDP-504CMX

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Mark No.	Description	<u>n Part No.</u>	<u>Mark No.</u>	<u>Description</u>	Part No.	
	D CON BLOCK]			12, C7814, C7815	CKSRYB103K50	
<u>SEMICONI</u>	<u>DUCTORS</u>		C7813, C78		CKSRYB105K10	
⚠ IC5602		PQ05DZ11	C/823, C/8	24, C7839, C7844	CKSRYB221K50	Α
⚠ IC5603 Q5601, Q56	603	PQ09DZ11 HN1C01FU	C7802, C78	07, C7820, C7830	CKSSYF104Z16	^
Q5605	000	RN1901	C8102-C810	04, C8106, C8108	CKSSYF104Z16	
	603, D5609, D5610	1SS355		11, C8113, C8115, C8121		
			C8124, C81	26-C8129, C8132	CKSSYF104Z16	
D5601 D5604		HZU2.2B UDZS5.1B	RESISTOR	S		_
D3004		0D233.1D	R7845-R78		RS1/10S151J	
CAPACITO	RS		R8113		RS1/16S1001F	
	603, C5607, C5614, C	C5616 ACH1394	R7840, R78	41	RS1/16S2201F	
(100micro	,	01/00/01/01/01/01	R8112 R7808 R78	09, R7822, R7823, R7834	RS1/16S5100F RS1/16S75R0F	
C5602, C56 C5605, C56	604, C5615, C5617	CKSRYB103K50 CKSSYF104Z16	117000, 1170	00,117022,117020,117004	1101/100/01101	
03003, 030	500, 03010	010011104210	R7836, R78		RS1/16S75R0F	В
RESISTOR	<u>rs</u>		R8106, R81		RS1MMF100J	
R5601		ACN1162	R8108, R81 Other Resis		RS1MMF390J RS1/16S###J	
R5627		ACN1168	Other Ficolo	1010	1101/100111110	
Other Resis	Stors	RS1/16S###J	<u>OTHERS</u>			
OTHERS				P DIN SOCKET	AKP1217	
	H CONNECTOR 7P	AKM1246		C SOCKET SP	AKX1059	
⚠ CN5601 PI	H CONNECTOR 11F	P AKM1250		IC SOCKET 2P 7802 2P PIN JACK	AKX1060 DKB1031	
			•	SCREW TERMINAL	VNE1949	
VIDE	O SLOT1 AS	SY	[[C1 (V/C) P	LOCK		С
[INPUT REC		•	[IC1 (Y/C) BI SEMICONE			
SEMICONI	-		IC6257	JUCTURS	24LC01B	
IC7804		BA4558F-HT	IC6255		PD0278A	
⚠ IC8104		PQ015YZ01ZP	IC6251-IC62	254	TC7SHU04FU	
⚠ IC8101 ⚠ IC8102		PQ05DZ11 PQ09DZ11	IC6256		TC7W126FU	
⚠ IC8102 ⚠ IC8103, IC8	3105	PQ3DZ13	Q6255		2SJ461A	_
			Q6258		DTA124EUA	
IC7803		TC4052BFT	Q6251, Q62		HN1A01FU	
IC7801, IC7 Q7805	7802	TK15420M 2SC4116	Q6256, Q62	257	HN1B04FU	
Q7803, Q78	804	DTC124EUA	COILS AND) FILTERS		D
Q7806		HN1C01FU	F6251-F625		ATF1194	D
D=004 D=0	0.4 D7000 D7000	100000	L6251, L625		LCTAW120J2520	
	304, D7806-D7808 314, D8106, D8107	1SS302 1SS302	L6252, L625	54	LCTAW150J2520	
D7815, D81	, ,	1SS355	L6257 L6255, L625	56	LCTAW220J2520 LCTAW330J2520	
D7809, D78	310	UDZS5.6B	L0200, L020	30	LO 1AVV00002020	•
00110 411	D FU TEDO		<u>CAPACITO</u>	RS		•
F8101-F810	<u>D FILTERS</u>	ATF1194		06, C6312, C6313	CCSRCH120J50	
F6101-F610	03	A1F1194		74, C6288, C6290	CCSRCH220J50	
SWITCHES	3		C6249, C62 C6273, C62		CCSRCH471J50 CCSRCH680J50	
S7801	_	ASH1047		21, C6322, C6327-C6330	CEHAT101M10	_
04545:55			_		0=111=1=1	Е
CAPACITO		0000011000150	C6324 C6297		CEHAT470M16	
C7818, C78 C7850	319	CCSRCH220J50 CEHAT100M50	C6258, C62	960	CKSQYB225K10 CKSRYB102K50	
	114, C8125, C8130	CEHAT101M10		68, C6282, C6285	CKSRYB104K16	
C8112		CEHAT101M16	C6299, C63	00, C6309, C6310, C6316	CKSRYB104K16	_
C7808		CEHAT220M50	C6323		CKSRYB104K16	
C8101, C81	131	CEHAT221M16	C6201, C63	01. C6314	CKSRYB104K10	
C8122		CEHAT221M6R3	C6251, C62	53-C6257, C6259	CKSSYF104Z16	
•	347, C7848, C8107, 0			62, C6267, C6269-C6271	CKSSYF104Z16	
C8116		CEHAT470M16	C6275-C62	79, C6284, C6286, C6287	CKSSYF104Z16	
C7806		CEHAT471M16	C6291-C629	94, C6296, C6298	CKSSYF104Z16	F
C7821, C78	325, C7835, C7840, G	C7851 CEHAT4R7M50		04, C6307, C6308, C6311	CKSSYF104Z16	
	328, C7842, C7843	CKSRYB102K50	•	17-C6320, C6325, C6326	CKSSYF104Z16	
			C6252		DCH1165	67
_	_	_	PDP-504CMX	7	-	67
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	Mark No. Des	cription	Part No.	Mark No.	Description	Part No.
	RESISTORS			R6147, R6174		RS1/16S1301F
	R6251-R6254, R6271, I	B6275 B6276	RAB4CQ100J	110147,110174		1101/10010011
	R6329-R6331	10273, 110270	RAB4CQ103J	R6196		RS1/16S2400F
Α	R6321, R6322, R6334,	R6335. R6339	RS1/16S1000F	R6126, R6138		RS1/16S2701F
	R6273, R6289	, , , , , , , , , , , , , , , , , , , ,	RS1/16S1001F	R6113, R6129		RS1/16S4700F
	R6305, R6314		RS1/16S1101F	R6167, R6168		RS1/16S8201F
				Other Resistors	i	RS1/16S###J
	R6291, R6309, R6313		RS1/16S1301F	TOLONIAL OW D	1 001/3	
	R6323		RS1/16S2400F	[SIGNAL SW B		
	R6277, R6288		RS1/16S2701F	SEMICONDU	CIURS	***=====
	R6264, R6281 R6306, R6307		RS1/16S4700F RS1/16S8201F	IC7902		AN5870SB
	10000, 1000 <i>1</i>		H31/10302011	IC7908 IC7907		TC74VHC08FT TC74VHC126FT
	Other Resistors		RS1/16S###J	IC7905		TC74VHCT541AFT
				Q7903, Q7905,	Q7910	DTC124EUA
_	<u>OTHERS</u>					
В	X6251 (27MHz)		ASS1175	Q7913, Q7916		HN1A01FU
				Q7901, Q7906,	Q7911, Q7915	HN1C01FU
				Q7914		RN1902
	[IC1 (CVBS) BLOCK]			0404017000		
	SEMICONDUCTORS	<u>S</u>		CAPACITORS		
_	IC6106		HY57V161610DTC-8	C7923, C7925,	C7926	CEHANP470M10
	IC6107		PD0278A	C7905 C7902, C7928.	C7000 C7001	CEHAT101M10 CEHAT470M16
	IC6102-IC6105		TC7SHU04FU	C7902, C7928, C7908, C7912,	,	CEHAT470M16
	Q6103 Q6101, Q6102		DTC124EUA HN1A01FU	C7907, C7911,		CKSRYB103K50
	Q0101, Q0102		TINTAUTO	0.00., 0.0,	0.0.0	0.10.1.2.100.100
	Q6107		HN1B04FU	C7924, C7927,	C7930	CKSRYB105K10
С	Q0.0.		2	C7906, C7909,	C7910, C7914, C7918	CKSRYF103Z50
Ŭ	COILS AND FILTER	rs.		C7903, C7904,	,	CKSSYF104Z16
	F6102, F6103, F6105, F		ATF1194	C7920-C7922,	C7932, C7943	CKSSYF104Z16
	L6101, L6103		LCTAW120J2520	DECICTORS		
	L6102, L6104		LCTAW150J2520	RESISTORS	D7010 D7011	DAD4000D04
	L6108		LCTAW220J2520	R7902, R7907, R7917, R7918,		RAB4CQ0R0J RAB4CQ0R0J
	L6106		LCTAW330J2520	R7903	n/900	RAB4CQ103J
	CADACITODO			R7905, R7909,	B7912	RS1/16S27R0F
	CAPACITORS C6171, C6172		CCSRCH120J50	R8040-R8042		RS1/16S75R0F
	C6126, C6128, C6142,	C6144	CCSRCH220J50			
	C6127, C6143	00144	CCSRCH680J50	Other Resistors	i	RS1/16S###J
	C6102, C6106, C6115,	C6149, C6155	CEHAT101M10			
D	C6182, C6184, C6186		CEHAT101M10	<u>OTHERS</u>		
				3201 SCREW		ABA1295
	C6105		CEHAT470M16	3001 RIVET 3003 PROTEC	T CHEET OGO	AEP-211
	C6151		CKSQYB225K10	3002 SLOT PA		AMR3400 ANG2653
	C6112, C6114 C6119, C6122, C6136,	C6130	CKSRYB102K50 CKSRYB104K16	3203 SCREW	1422 202(/1)	BMZ30P080FZK
	C6153, C6154, C6168,		CKSRYB104K16	3202 SCREW		BPZ30P080FZK
_	00.00, 00.01, 00.00,					
	C6101, C6175, C6190		CKSRYB105K10	_		
	C6103, C6104, C6107-0	,	CKSSYF104Z16	VIDEO S	SLOT 2 ASSY	
	C6116, C6121, C6123-0		CKSSYF104Z16	SEMICONDU	CTORS	
	C6129-C6133, C6138, C	•	CKSSYF104Z16	IC7804		BA4558F-HT
Ε	C6145-C6148, C6150, (C6152	CKSSYF104Z16	⚠IC8104		PQ015YZ01ZP
	C6156-C6161, C6166, 0	C6167 C6170	CKSSYF104Z16	⚠ IC8101		PQ05DZ11
	C6173, C6174, C6176,	•	CKSSYF104Z16	⚠IC8102		PQ09DZ11
	C6183		CKSSYF104Z16	⚠ IC8103, IC8105	•	PQ3DZ13
				IC7803		TC4052BFT
	RESISTORS			IC7801, IC7802	•	TK15420M
	R6163, R6166, R6178,	R6180	RAB4CQ0R0J	Q7805	•	2SC4116
	R6101, R6104-R6106, I	R6120	RAB4CQ100J	Q7803, Q7804		DTC124EUA
	R6124, R6125		RAB4CQ100J	Q7806		HN1C01FU
	R6153-R6155		RAB4CQ103J			
	R6210-R6213		RAB4CQ121J	D7801-D7804,	D7806-D7814	1SS302
F	R6146, R6159, R6184		RAB4CQ330J	D8106, D8107	D9105	1SS302 1SS355
Г	R6156, R6160, R6161,	R6194, R6195	RS1/16S1000F	D7815, D8101-	D0100	100000
	R6122, R6140	,	RS1/16S1001F	COILS AND F	ILTERS	
	R6175		RS1/16S1101F	F8101-F8103	<u></u>	ATF1194
	00					· · · · • ·
'	68	_	PDP-504CN	ЛX		

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Mark No. Desc	ription Part No.	Mark No.	<u>Description</u>	Part No.	
CAPACITORS	•	C6324	•	CEHAT470M16	
C7850	CEHAT100M5			CKSQYB225K10	
C8105, C8114, C8125, C	8130 CEHAT101M1			CKSRYB102K50	
C8112	CEHAT101M1		6268, C6282, C6285	CKSRYB104K16	Α
C7808	CEHAT220M5	•	6300, C6309, C6310, C631	6 CKSRYB104K16	
C8101, C8131	CEHAT221M1	6 C6323		CKSDVB104K16	
00100	OFLIATOOANAC	00004 0	6301, C6314	CKSRYB104K16 CKSRYB105K10	
C8122	CEHAT221M6 8107. C8109 CEHAT470M1		6253-C6257, C6259	CKSSYF104Z16	
C7801, C7847, C7848, C C8116	CEHAT470M1	00001 0	6262, C6267, C6269-C6271		
C7806	CEHAT470M1	00075	6279, C6284, C6286, C6287		
C7821, C7825, C7835, C			, , ,		
0.02., 0.020, 0.000, 0			6294, C6296, C6298	CKSSYF104Z16	
C7853, C7855	CEHAT4R7M	50 C6302-C6	6304, C6307, C6308, C6311	CKSSYF104Z16	
C7827, C7828, C7842, C	7843 CKSRYB102k	50 C6315, C	6317-C6320, C6325, C6326		
C7857, C7858	CKSRYB102k			DCH1165	_
C7803, C7812, C7814, C	C7815 CKSRYB103k	50			В
C7813, C7816, C7817	CKSRYB105k	•			
			6254, R6271, R6275, R6276		
C7823, C7824, C7839, C	•			RAB4CQ103J	
C7859	CKSRYB221k	-	6322, R6334, R6335, R633		
C7802, C7807, C7820, C		,		RS1/16S1001F	
C8102-C8104, C8106, C8		· · · · · · · · · · · · · · · · · · ·	0314	RS1/16S1101F	
C8110, C8111, C8113, C	6115, C6121 CK551F1042		6309, R6313	RS1/16S1301F	
C8124, C8126-C8129, C8	8132 CKSSYF104Z	The state of the s	5509, H0313	RS1/16S2400F	
00124, 00120 00123, 00	0102 0100111042	R6277, R	6288	RS1/16S2701F	
RESISTORS		R6264, R		RS1/16S4700F	
R8113	RS1/16S1001	Dooco D		RS1/16S8201F	
R8112	RS1/16S5100	•			С
R7808, R7809, R7822, R		011 D	sistors	RS1/16S###J	
R7836, R7837	RS1/16S75R0				
R8106, R8118	RS1MMF100				
		X6251 (2	7MHz)	ASS1175	
R8108, R8119-R8121	RS1MMF390				
Other Resistors	RS1/16S###J				
			S) BLOCK]		
<u>OTHERS</u>		<u>SEMICON</u>	NDUCTORS		
CN7801 4P DIN SOCKE		IC6106		HY57V161610DTC-8	
JA7801-JA7803 2P PIN		IC6107		PD0278A	
JA7804 2P PIN JACK	VKB1134	IC6102-IC	26105	TC7SHU04FU	
JA7805 3P PIN JACK	VKB1150 RMINAL VNE1949	Q6103		DTC124EUA	D
7801, 7802 SCREW TEF	RIVIINAL VINE 1949	Q6101, Q	6102	HN1A01FU	
		Q6107		HN1B04FU	
[IC1 (Y/C) BLOCK]		Q0107		111(10041 0	
SEMICONDUCTORS		COILS A	ND FILTERS		
IC6257	24LC01B		6103, F6105, F6106	ATF1194	_
IC6255	PD0278A	L6101, L6		LCTAW120J2520	
IC6251-IC6254	TC7SHU04FL	-		LCTAW150J2520	
IC6256	TC7W126FU	L6108		LCTAW220J2520	
Q6255	2SJ461A	L6106		LCTAW330J2520	
Q6258	DTA124EUA	<u>CAPACIT</u>	<u>ORS</u>		_
Q6251, Q6253	HN1A01FU	C6171, C	6172	CCSRCH120J50	Е
Q6256, Q6257	HN1B04FU		6128, C6142, C6144	CCSRCH220J50	
	_	C6127, C		CCSRCH680J50	
COILS AND FILTERS			6106, C6115, C6149, C615		
F6251-F6254	ATF1194	· · · · · · · · · · · · · · · · · · ·	6184, C6186	CEHAT101M10	
L6251, L6253	LCTAW120J2			OF LAT 4701440	
L6252, L6254	LCTAW150J2			CEHAT470M16	
L6257 L6255, L6256	LCTAW220J2 LCTAW330J2		6114	CKSQYB225K10 CKSRYB102K50	
L0233, L0230	LC IAVV33002	The state of the s	6122, C6136, C6139	CKSRYB104K16	
CAPACITORS		,	6154, C6168, C6177	CKSRYB104K16	
C6305, C6306, C6312, C	C6313 CCSRCH120	•	5.51, 55150, 55177	OKOKI DIOTKIO	
C6305, C6306, C6312, C		00101 0	6175, C6190	CKSRYB105K10	_
C6249, C6250	CCSRCH471	00400 0	6104, C6107-C6111, C6113		F
C6273, C6289	CCSRCH680		6121, C6123-C6125	CKSSYF104Z16	
C6295, C6321, C6322, C		0 C6129-C6	6133, C6138, C6140, C6141		
, , , - , -			6148, C6150, C6152	CKSSYF104Z16	
		PDP-504CMX	I	69	
■ 5	— 6		7 -	8	

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Mark No.	<u>Description</u>	Part No.
	, C6166, C6167, C6170 1, C6176, C6178-C6181	CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16
RESISTORS R6163, R6166, R6178, R6180 R6101, R6104-R6106, R6120 R6124, R6125 R6153-R6155 R6210-R6213		RAB4CQ0R0J RAB4CQ100J RAB4CQ100J RAB4CQ103J RAB4CQ121J
R6146, R6159 R6156, R6160 R6122, R6140 R6175 R6147, R6174	o, R6161, R6194, R6195 o	RAB4CQ330J RS1/16S1000F RS1/16S1001F RS1/16S1101F RS1/16S1301F
R6196 R6126, R6138 R6113, R6129 R6167, R6168 Other Resisto) 3	RS1/16S2400F RS1/16S2701F RS1/16S4700F RS1/16S8201F RS1/16S###J
[SINGLE SW SEMICONDU IC7902 IC7908 IC7907	•	AN5870SB TC74VHC08FT TC74VHC126FT
IC7905 Q7903, Q7909	5, Q7910	TC74VHCT541AFT DTC124EUA
Q7913, Q7916 Q7901, Q7906, Q7911, Q7915		HN1A01FU HN1C01FU

CAPACITORS

Q7914

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В

C7923, C7925, C7926 CEHANP470M10
C7905 CEHAT101M10
C7902, C7928, C7929, C7931 CEHAT470M16
C7908, C7912, C7917 CEHAT471M16
C7907, C7911, C7916 CKSRYB103K50

C7924, C7927, C7930 CKSRYB105K10
C7906, C7909, C7910, C7914, C7918 CKSRYF103Z50
C7903, C7904, C7913, C7915 CKSSYF104Z16

RESISTORS

C7920-C7922, C7932, C7943

R7902, R7907, R7910, R7914
R7917, R7918, R7935
RAB4CQ0R0J
R7903
RAB4CQ103J
R7905, R7909, R7912
R8040-R8042
RS1/16S75R0F

Other Resistors RS1/16S###J

OTHERS

 3201
 SCREW
 ABA1295

 3001
 REVET
 AEP-211

 3003
 PROTECT SHEET 262
 AMR3400

 3002
 SLOT PANEL 262(B)
 ANG2654

 3202
 SCREW
 BPZ30P080FZK

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PDP-504CMX

RN1902

CKSSYF104Z16

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- 1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
- 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- 3. Use a stable AC power supply.

6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ When any of the following assemblies is replaced POWER SUPPLY Unit No adjustment required Refer to the "7.1.6 BACKUP THE ADJUSTMENT VALUES **DIGITAL VIDEO Assy** FOR THE MAIN UNIT." 50 X DRIVE Assy No adjustment required 50 Y DRIVE Assy No adjustment required AV I/O Assy No adjustment required **RGB Assy** No adjustment required **VIDEO SLOT Assy** No adjustment required Other assemblies No adjustment required Service Panel VSUS and VOFS voltage setup, Panel WB check When any part in the following assemblies is replaced The assembly must be replaced as a unit, and no part **POWER SUPPLY Unit** replacement is allowed. **DIGITAL VIDEO Assy** No adjustment required 50 X DRIVE Assy No adjustment required 50 Y DRIVE Assy No adjustment required Replacement and repair of IC7610 and IC8705 are AV I/O Assy impossible. Replacement and repair of IC6001, IC6401, IC6403, **RGB Assy** IC6601, IC6602 and IC7205 are impossible. Replacement and repair of IC6107, IC6255, IC6257 **VIDEO SLOT Assy** and IC7902 are impossible. Other assemblies No adjustment required

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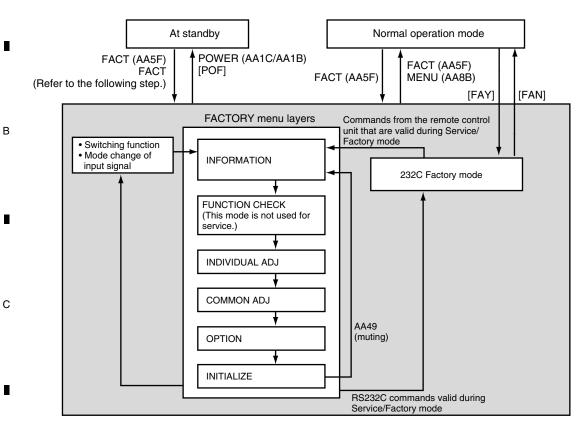
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6.2 SERVICE FACTORY MODE

Commands in Service/Factory mode must be issued using the remote control unit supplied with the Plasma Display.

■ State Transition Diagram

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6.3 HOW TO ENTER FACTORY MODE

For adjustments, it is necessary to enter Service/Factory mode. There are two ways to enter Service/Factory mode: by using the remote control unit, or by using RS232C commands from your PC.

When the unit is in Standby (STB) Mode

• Please refer to the technical document (Service Knowhow)

When the power is on

No.	Method	Procedures
1	Remote control unit	When the conventional Service/Factory code (AA5F) is sent, the unit will enter Service/Factory mode.
2	PC	Connect your PC via its RS232C port, and send the FAY command.

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■ Operation when Service/Factory mode is entered

Functions whose settings are set to OFF

The settings of the following functions are set to OFF when Service/Factory mode is entered (including when this mode is entered by receiving the FAY command):

- SPLIT (The display will become that of the main input.)
- STILL

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- MASK CONTROL
- ORBITER
- POINT ZOOM

User's setting data

User setting data are set as follows:

- Although user's adjustment data for video/audio adjustment and various adjustment are stored in memory, they are not reflected on the display.
- Although user's adjustment data for display are stored in memory, display adjustment data are reset to the default settings.
- Screen size and sound volume reflect user settings.
- The COLOR DECODING and SIGNAL FORMAT settings are reset to the default values.

Setting data for Integrator mode

Setting data for Integrator mode will change as follows:

- Although video/audio adjustment data and various data for Integrator mode are stored in memory, they are not reflected on the display.
- Although adjustment data for display in Integrator mode are stored in memory, display adjustment data are reset to the default settings.

■ Functions of the keys on the remote control unit in Service/Factory mode

SR Function	Main Function	Description
MUTING	Switching main items	For shifting to the next (top) main item
▼ (DOWN)	Switching subitems	For shifting to the next (downward) subitem
▲ (UP)	Switching subitems	For shifting to the previous (upward) subitem
◄ (LEFT)	Increasing adjustment value	For increasing adjustment value
► (RIGHT)	Decreasing adjustment value	For decreasing adjustment value
SET	Shifting layers	For shifting to lower or upper layer
INPUT *	Switching inputs	For switching the input to *
STANDBY/ON	POWER OFF	For turning off the power
FACTORY	Service/Factory OFF	For setting Service/Factory mode to OFF
MENU	Service/Factory OFF	For setting Service/Factory mode to OFF
POINT ZOOM	Matrix change	RGB →YCBR (Component1) → YPBR (Component2)
SPLIT	Main screen/Sub screen change	MAIN → SUB

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■ Main-item indications

Four parameters are displayed:

1 Input function

When there is not a video card

Input Functions	On-Screen Display	
IN1, IN2	IN1, IN2	

When there is a video card

Input Functions	On-Screen Display	
IN1 to IN5	IN1 to IN5	

2 SIG mode and screen size

Note: See SIG-Mode Tables. (See next page.)

- 3 Color system and signal type

When there is not a video card

Color System and Signal Type	On-Screen Display
RGB	RGB
Digital video signal	DIG

When there is a video card

Color System a	On-Screen Display	
NTSC		NTV/NTS
PAL		PLV/PLS
SECAM	Composite input/ S-connector input	SCV/SCS
4.43NTSC		4NV/4NS
PAL M		PMV/PMS
PAL N		PNV/PNS
BLACK/WHITE		BWV/BWS
Y / Cb / Cr		CBR
Y / Pb / Pr	PBR	
RGB	RGB	
Digital video signal	DIG	

4 Option (Destination, etc.)

Options	On-Screen Display	
CMX/MXE	4MX	

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SIG-Mode Table

The signal mode is displayed in three characters:

First character: Resolution of the input signal (numerics for the video signals, and alphabetics for the PC signals)

Second character: Grouping of the vertical frequencies

2nd Character	Reference Vertical Frequency	Area	Remarks
_	-	- 20.0	No signal
В		20.0 to 28.0	
С		28.0 to 45.0	
1	50	45.0 to 54.5	
2	56	54.5 to 58.2	
3	60	58.2 to 63.0	
4	66	63.0 to 68.0	
5	70	68.0 to 73.4	
6	For interpolation of 72-Hz	73.4 to 73.9	For distinguishing between 70-Hz or 75-Hz area
7	75	73.9 to 80.0	
8	85	80.0 to 88.5	
?	-	91.5 –	Out of range

Third character: Selection of the screen size by the user is displayed.

(O: available, ×: not available)

3rd Character	Description on GUI	VIDEO	PC
0	DOT BY DOT	×	0
1	4:3	0	0
2	FULL (FULL1080i)	0	0
3	ZOOM	0	×
4	WIDE	0	×
6	CINEMA	0	×
8	FULL (FULL1035i)	0	×
9 *	UNDERSCAN	0	×
:	PARTIAL	×	0

* This is displayed only when UNDERSCAN has been set before Service/Factory mode is entered. In Service/Factory mode, changing from other screen sizes to UNDERSCAN cannot be performed.

SIG-Mode Table

SIG-Mode table for video signals

SIG-Mode	Signal Type	Vertical Freq. fv (Hz)	Horizontal Freq. fh (kHz)	Dot Clock (MHz)	Remarks
13*	SDTV • 525i	60.000	15.734	13.5	
21*	SDTV • 625i	50.000	15.625	13.5	
33*	SDTV • 525p	60.000	31.469	27.000	
41*	HDTV • 1125i	50.000	28.125	74.250	
43*		60.000	33.750	74.250	
51*	SDTV • 625p	50.000	31.250	27.000	
61*	HDTV • 750p	50.000	37.500	74.250	
63*		60.000	45.000	74.250	
7B*	HDTV • 1125p	25.000	28.125	74.250	Use as OUT OF RANGE
7C*		30.000	33.750	74.250	Use as OUT OF RANGE
71*		50.000	56.250	148.500	
73*		60.000	67.500	148.500	
81*	HDTV • 1250p	50.000	62.500	148.500	
91*	288p	50.000	15.625	27.0/54.0	Use as OUT OF RANGE
93*	288p	60.000	15.750	27.0/54.0	Use as OUT OF RANGE

*: Represents the current screen-size selected.

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SIG-Mode table for PC signals

IG-Mode	Signal Type	Vertical Freq. fv (Hz)	Horizontal Freq. fh (kHz)	Dot Clock (MHz)	Remarks
A2*	640 × 400	56.422	24.825	21.052	Former 720 × 400
A5*	720 × 400	70.087	31.469	28.322	Former 640 × 400
A8*	720 × 400	85.050	37.861	35.438	New
B1*	640 × 480	49.673	24.688	19.750	640 × 480 For rescan (48/50Hz)
B3*		59.940	31.469	25.175	
B4*		66.666	35.000	30.240	
B6*		72.809	37.861	31.500	
B7*		75.000	37.500	31.500	
B8*		85.000	43.300	36.000	
C1*	848 × 480	49.540	24.621	26.000	848×480 For rescan (48/50Hz)
C3*		60.000	31.020	33.750	
D2*	800 × 600	56.250	35.158	36.000	
D3*		60.317	37.879	40.000	
D6*		72.188	48.077	50.000	
D7*		75.000	46.875	49.500	
D8*		85.061	53.674	56.250	
E7*	832 × 624	74.550	49.725	57.283	
F1*	1024 × 768	48.003	38.690	52.000	1024 × 768 For rescan (48/50Hz
F3*		60.004	48.363	65.000	
F5*		70.069	56.476	75.000	
F7*		75.029	60.023	78.750	
F8*		84.997	68.677	94.500	
G1*	1280 × 768	48.014	38.507	65.000	1280 × 768 For rescan (48/50Hz
G2*		56.250	45.113	76.150	
G3*		59.870	47.776	79.500	
G5*		69.843	56.014	95.000	
H3*	1152 × 864	60.000	53.700	79.369	
H6*		72.000	64.900	99.686	
H7*		75.000	67.500	108.000	
17*	1152 × 870	75.061	68.681	100.300	
J4*	1152 × 900	65.950	61.800	92.940	
J7*		76.050	71.710	105.561	
K3*	1280 × 960	60.000	60.000	108.000	
L3*	1280 × 1024	60.020	63.981	108.000	
L7*	 	75.025	79.976	135.000	
L8*		85.024	91.146	157.500	
M3*	1400 × 1050	59.978	65.317	121.750	
M7*	1400 × 1050	74.867	82.278	156.000	
M8*	1400 × 1050	84.960	93.881	(179.500)	
N3*	1600 × 1200	60.000	75.000	162.000	
N4*		65.000	81.250	153.563	
N5*	 	70.000	87.500	153.563	
N7*	 	75.000	93.750	151.875	
N8*		85.000	106.250	157.781	
O3*	1280 × 720	59.943	44.718	74.410	

^{* :} Represents the current screen-size selected.

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INFORMATION mode

Select the main item "INFORMATION" using the MUTE key then select the subitems shown in the table below using the ▲ or ▼ key.

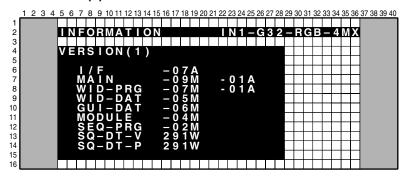
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Operation items

No.	Function / Display	Content	232C Command
1	VERSION (1)	The flash memory versions for each device are displayed (1)	GS1
2	VERSION (2)	The type of video card inserted in the slot is displayed:	
3	SERIAL	For displaying the serial number of the product	GNP/ GST
4	PANEL PD	Power-down and its time of occurrence are displayed. The values can be cleared.	GPD
5	PANEL SD	Shutdown and its time of occurrence are displayed. The values can be cleared.	GNG
6	TEMPERATURE	Information on temperature is displayed.	GS2/GST
7	HOUR METER	Cumulative power-on time is displayed. The value can be cleared.	GS2
8	PULSE METER	The pulse meter values at each block are displayed. The values can be cleared.	GPM
9	P ON COUNTER	The number of times the power was turned on is displayed. The value can be cleared.	GPC
10	BACKUP EEPROM	The status of the backup data for the module microcomputer is displayed and updated.	GS2

1. VERSION (1)

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The flash memory versions for each device are displayed.

On-Screen Display	Flash memory of Device
I/F	User IF microcomputer
MAIN	Main microcomputer
WID-PRG	Program for IC3, Boot program for IC3
WID-DAT	Extension Engin data for IC3
GUI-PRG	GUI data for IC3
MODULE Module microcomputer	
SEQ-PRG	Program for IC4
SQ-DT-V Sequence data for IC4 (for VIDEO)	
SQ-DT-P	Sequence data for IC4 (for PC)

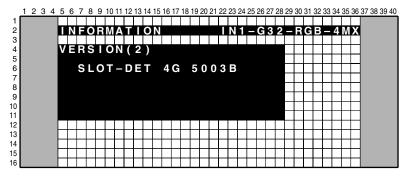
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2. VERSION (2)

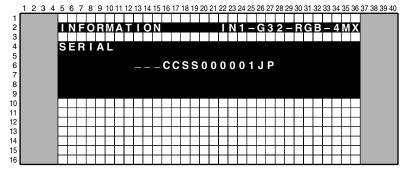
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The type of video card inserted in the slot is displayed:

Device	Name Indication	Type of video card	Remarks	
SLOT-DET	SLOT-DET	(No indication)	No card inserted	
		4G 5003B	When the Pioneer PDA-5003 Standard Video Card is inserted.	
		4G 5004R	When the Pioneer PDA-5004 Standard Video Card is inserted.	
		3G TYPE *	When a PDP-503CMX-based OEM video card is inserted * = A to H	
		4G TYPE *	When a PDP-504CMX-based OEM video card is inserted * = A to J	

3. SERIAL



The serial number of the product is displayed.

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4. PANEL PD

The log of the past eight power-downs is displayed. Power-down points (first and second) and the hour meter value when the power-down was generated are displayed, with the latest power-down data at the top.

The meanings of indications for power-down points are shown in the table below.

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• Power-down information

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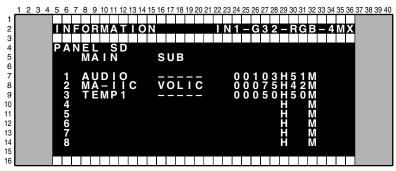
Type of Power-down	On-Screen Display	Type of Power-down	On-Screen Display
No corresponding item		POWER Power-down of the Y-SUS system Power-down of the address system	
Power-down of the main power supply system	POWER		
Power-down of the scanning system	SCAN	Power-down of the X-DRIVE circuitry	X-DRV
Power-down in the path between the scanning system and 5-V power supply	SCN-5V	Power-down of the X-DC/DC converter	X-DCDC
Power-down of the Y-Drive system	Y-DRV	Power-down of the X-SUS system	X-SUS
Power-down of the Y-DC/DC converter	Y-DCDC	Power-down of the driving IC power supply system	D-DCDC
PD which cannot be specified	UNKNOWN		

^{*1:} If an activated protection circuit could not be identified after the power-down, it is treated as an unidentifiable power-down (UNKNOWN).

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5. PANEL SD

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The log of the past eight shutdowns is displayed. Shutdown points and the hour meter value when the shutdown was generated are displayed, with the latest shutdown data at the top.

The meanings of indications for shutdown points are shown in the table below.

• Panel shutdown information

No.	Type of Shutdown	On-Screen Display (MAIN)	Subcategory
1	Abnormality in IC4 communication	IC4	
2	Abnormality in module microcomputer IIC communication	MD-IIC	Exists.
3	DIGITAL-DCDC power decrease	RST2	
4	Abnormality in panel temperature	TEMP1	
5	Short-circuiting of the speakers	AUDIO	
6	Abnormality in module microcomputer communication	MODULE	
7	Abnormality in three-wire serial communication of the main microcomputer	MA-SRL	Exists.
8	Abnormality in main microcomputer IIC communication	MA-IIC	Exists.
9	Abnormality in main microcomputer communication	MAIN	
10	FAN stopped	FAN	
11	Abnormality in unit temperature	TEMP	Exists.
12	Abnormality in the ASIC power on the main microcomputer side	M-DCDC	
13	Other failures	ETC	Exists.

• Subcategory information

No.	Type of Shutdown	Subcategory	
2	MD-IIC	EEPROM4K, EROM2K	
7	MA-SRL	IF microcomputer, IC2, IC3	
8	MA-IIC	MA-EEP, IC1-V, IC1-Y, AD-M, AD-S, SL-EEP, IC6/1, IC6/2, VOLIC	
11	TEMP	INSIDE/AIR (INSIDE = TEMP2/AIR =TEMP3)	
13	ETC	RLS, VCC-D1, VCC-D2	

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6. TEMPERATURE

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 INFORMATION IN1— EMPERATURE FAN 125

Data from each temperature sensor and the fan output value are displayed:

 Temperature sensors [°C]
 PANEL: Sensor temperature of a panel part (Reference value) INSIDE: Temperature inside the unit (Reference value)

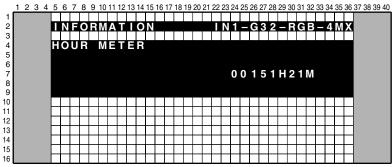
AIR: Ambient temperature around the unit (Reference value)

• Fan output: Fan output data

To update the temperature values or fan output data, use the [◄] or [▶] key.

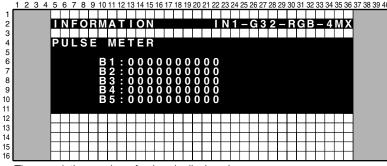
7. HOUR METER

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The cumulative power-on time is displayed.

8. PULSE METER



The cumulative number of pulses is displayed.

9. P ON COUNTER

ON COUNTER 00001231 TIMES 10 11 12 13 14

The cumulative number of times the unit was turned on is displayed.

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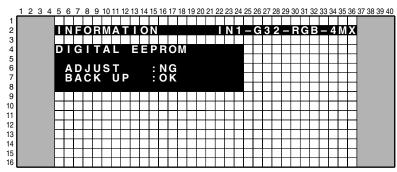
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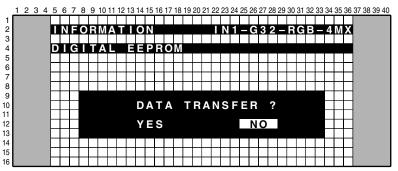
10. BACKUP EEPROM

When the DIGITAL VIDEO Assy is to be replaced, the adjustment values in it are temporarily stored in the backup ROM then are written on the new Assy after replacement.

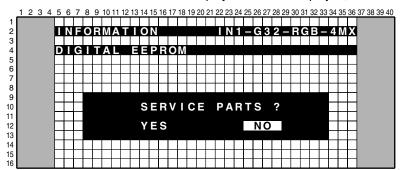
① Check if adjustment has been made on the DIGITAL VIDEO Assy or not (i.e., in the state of a new service part), and if the data on any adjustment values are retained in the backup ROM or not.



- ADJUST: OK (DIGITAL VIDEO Assy adjusted)
 NG (DIGITAL VIDEO Assy not adjusted)
- BACKUP: OK (Adjustment data retained in the backup ROM)
 NG (Adjustment data not retained in the backup ROM)
- ② Downloading the data for the DIGITAL VIDEO Assy from the backup ROM
 - Press the SET key while display ① above is displayed, and the following display will appear.



- Move the cursor to YES and press the SET key.
 The data in the backup ROM are copy to the DIGITAL VIDEO Assy.
 (When a new DIGITAL VIDEO Assy has been mounted, it now has the adjustment data suited for the panel.)
- Move the cursor to NO, and press the SET key.
 Copy of the data to the DIGITAL VIDEO Assy will not be executed.
- 3 Clearing the data in the ROM of the DIGITAL VIDEO Assy
 - When YES or NO is selected while display ② above is displayed, the following display will appear.



- Move the cursor to YES and press the SET key.
- The data in the ROM of the DIGITAL VIDEO Assy are cleared, and the Assy has no specific adjustment data.
- Move the cursor to NO and press the SET key. The data in the ROM of the DIGITAL VIDEO Assy are not cleared. When YES selected on display ② and the data were copy, select NO on this display.

Note: When YES or NO is selected on display $\ensuremath{\mathfrak{I}}$ above, the display returns to that of $\ensuremath{\mathfrak{I}}$ above.

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Adjustment of corresponding route unevenness

Basically, only replacement of service parts is required, and adjustment is not required.

No.	Command	Adjustment Parameter Name in Factory	Function	
1	VSG	CVY GAIN	IC1 MAIN GAIN adjustment (switching routes with the SWM [main] and SWS [sub] commands)	
2	VSO	CVY OFFSET	IC1 MAIN OFFSET adjustment (switching routes with the SWM [main] and SWS [sub] commands)	
3	RYG	RY GAIN	AD R GAIN adjustment (correction in differences between component- and RGB-system signals)	
4	GYG	GY GAIN	AD G GAIN adjustment (correction in differences between component- and RGB-system signals)	
5	BYG	BY GAIN	AD B GAIN adjustment (correction in differences between component- and RGB-system signals)	
6	ADC	AD MAIN GAIN	AD MAIN RGB GAIN adjustment (for main screen)	
7	MRG	AD MAIN RY GAIN	AD MAIN RY GAIN adjustment (for main screen)	
8	MGG	AD MAIN GY GAIN	AD MAIN GY GAIN adjustment (for main screen)	
9	MBG	AD MAIN BY GAIN	AD MAIN BY GAIN adjustment (for main screen)	
10	MRO	AD MAIN RY OFS	AD MAIN RY OFFSET adjustment (for main screen)	
11	MGO	AD MAIN GY OFS	AD MAIN GY OFFSET adjustment (for main screen)	
12	МВО	AD MAIN BY OFS	AD MAIN BY OFFSET adjustment (for main screen)	
13	SRG	AD SUB RY GAIN	AD SUB RY GAIN adjustment (for sub screen)	
14	SGG	AD SUB GY GAIN	AD SUB GY GAIN adjustment (for sub screen)	
15	SBG	AD SUB BY GAIN	AD SUB BY GAIN adjustment (for sub screen)	
16	SRO	AD SUB RY OFS	AD SUB RY OFFSET adjustment (for sub screen)	
17	SGO	AD SUB GY OFS	AD SUB GY OFFSET adjustment (for sub screen)	
18	SBO	AD SUB BY OFS	AD SUB BY OFFSET adjustment (for sub screen)	

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Adjustment values to be stored in the EEPROM of the AV I/O (INDIVIDUAL mode)

Adjustment values differ depending on the input function, input signal format, and main/sub screen.

Innut and	Commands for Adjustment		
Input and Signal Format	Route for the Main Screen	Route for the Sub Screen	
INPUT1 (RGB)	RYG GYG BYG	RYG GYG BYG	
INPUT1 (Color difference)	RYG GYG BYG	RYG GYG BYG	

- Four adjustment tables are provided here, depending on the input function, input signal format, and main/sub screen.
- No adjustment is required for INPUT 2, which is of DVI (digital video interface) standards.

Adjustment values to be stored in the EEPROM of the PDA-5003 or PDA-5004

Adjustment values differ depending on the input function and main/sub screen.

Innut and	Commands fo	or Adjustment	
Input and Signal Format	Route for the Main Screen	Route for the Sub Screen	
INPUT3 (Y/C)	VSG VSO	RYG GYG BYG	
INPUT4 (Comp. V)	VSG VSO	RYG GYG BYG	
INPUT5 (Y/C)	RYG GYG BYG	RYG GYG BYG	
INPUT5 (Color difference)	RYG GYG BYG	RYG GYG BYG	

• Eight adjustment tables are provided here, depending on the input function and main/sub screen.

Adjustment values to be stored in the EEPROM of the RGB (COMMON mode)

Adjustment values differ depending on the signal resolution, input signal format, and main/sub screen.

Note: No adjustment is required for DVI input or signals converted to digital signals by IC1.

[Main adjustment 1]

Main A/D adjustments for R, G, and B individually (COMMON-RGB mode)

Input and Signal Format	Commands for Adjustment		Conditions for the Tables to be Switched
525i (RGB)	MRG MGG MBG	MRO MGO MBO	Video RGB signals (excl. 1125p signals)
525i (Color difference)	MRG MRO MGG MGO MBG MBO		Video color-difference signals (excl. 1125p signals)
1080p (RGB)	MRG MGG MBG	MRO MGO MBO	All PC signals and 1125p RGB signals
1080p (Color difference)	MRG MGG MBG	MRO MGO MBO	1125p color-difference signals

- For adjustment according to the above tables, input corresponding signals to INPUT 5 to change the RGB/color-difference signal setting then perform adjustment.
- Four adjustment tables are provided here, depending on the signal resolution, input signal format, and main/sub screen.

[Sub adjustment 1]

Main A/D adjustments for R, G, and B individually (COMMON-RGB 1 mode)

Input and Signal Format	Commands for Adjustment		Conditions for the Tables to be Switched
RGB	SRG SGG SBG	SRO SGO SBO	All R, G, and B signals
Color difference	SRG SGG SBG	SRO SGO SBO	All color-difference signals

- For adjustment according to the above tables, input video signals to INPUT 5 to switch to the route for sub input and to change the RGB/color-difference signal setting then perform adjustment.
- Two adjustment tables are provided here, depending on the signal format.

[Main adjustment 2]

Main A/D adjustments for all R, G, and B simultaneously (COMMON-RGB 2 mode)

Input and Signal Format	Commands for Adjustment	Conditions for the Tables to be Switched
RGB	ADC	All R, G, and B signals
Color difference	ADC	All color-difference signals

- For adjustment according to the above tables, input video signals to INPUT 5 to switch to the route for main input and to change the RGB/color-difference signal setting then perform adjustment.
- A contrast gain commits this adjustment command simultaneously three colors.
- Two adjustment tables are provided here, depending on the signal format.

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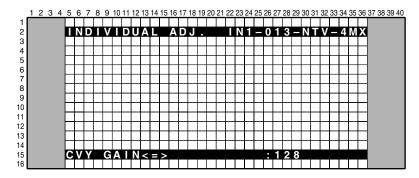
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INDIVIDUAL ADJ. mode

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В



Each time the ▲ or ▼ key is pressed, the individual adjustment items are changed, as follows:

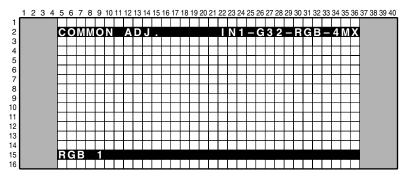
No.	Corresponding 232C Command	Function/Display	Content	Adjustable Range	Remarks
1	VSG	CVY GAIN<=> : ***	MICHAEL (IC6255) input GAIN adj.		Select a route with the command
2	VSO	CVY OFFSET<=> : ***	MICHAEL (IC6255) input OFFSET adj.	064 to 191	SWM (main) and the command SWS (sub).
3	RYG	RY GAIN<=> : ***	AD (IC6001 or IC6602) R input GAIN adj.		The memory tables for the RGB and
4	GYG	GY GAIN<=> : ***	AD (IC6001 or IC6602) G input GAIN adj.		component systems are separate, and are switchable with the
5	BYG	BY GAIN<=> : ***	AD (IC6001 or IC6602) B input GAIN adj.	000 to 255	command MCD.

"***" in the table above represents the adjustment value.

The value of each subitem can be changed using the ◀ or ▶ key.

Note: The differences in signals for the main and sublevel screens from the AV/IO Assy are compensated, and the compensation data are stored in the EEPROM (IC8705) for each screen.

COMMON ADJ. mode



Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

• RGB1(+) : Adjustment of a video card and the RGB Assy

• RGB2(+) : Adjustment of the RGB Assy

PANEL1(+) : Adjustment items related to the drive (common to the unit)
PANEL2(+) : Adjustment items related to the drive (dependent on signals)

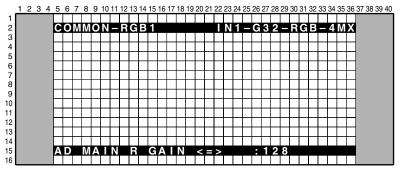
Each time the SET key is pressed, items grouped under the subitem are selected one by one.

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1. COMMON-RGB1



Each time the \blacktriangle or \blacktriangledown key is pressed, the subitems are changed, as follows:

When the main input is selected

No.	Corresponding 232C Command	Function/Display	Content	Adjustable Range	Remarks
1	MRG	AD MAIN R GAIN <=> : ***	AD (IC6001) MAIN R GAIN adj. (for main screen)	000 to 255	
2	MGG	AD MAIN G GAIN <=> : ***	AD (IC6001) MAIN G GAIN adj. (for main screen)	000 to 255	
3	MBG	AD MAIN B GAIN <=> : ***	AD (IC6001) MAIN B GAIN adj. (for main screen)	000 to 255	
4	MRO	AD MAIN R OFFSET <=> : ***	AD (IC6001) MAIN R OFFSET adj. (for main screen)	000 to 255	
5	MGO	AD MAIN G OFFSET <=> : ***	AD (IC6001) MAIN G OFFSET adj. (for main screen)	000 to 255	
6	МВО	AD MAIN B OFFSET <=> : ***	AD (IC6001) MAIN B OFFSET adj. (for main screen)	000 to 255	

When the sub input is selected

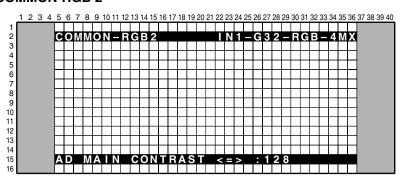
No.	Corresponding 232C Command	Function/Dis	splay	Content	Adjustable Range	Remarks
1	SRG	AD SUB R GAIN <	<=> : ***	AD (IC6602) SUB R GAIN adj. (for sub screen)	000 to 255	
2	SGG	AD SUB G GAIN <	<=> :***	AD (IC6602) SUB G GAIN adj. (for sub screen)	000 to 255	
3	SBG	AD SUB B GAIN <	<=> :***	AD (IC6602) SUB B GAIN adj. (for sub screen)	000 to 255	
4	SRO	AD SUB R OFFSET <	<=> : ***	AD (IC6602) SUB R OFFSET adj. (for sub screen)	064 to 191	
5	SGO	AD SUB G OFFSET <	<=> :***	AD (IC6602) SUB G OFFSET adj. (for sub screen)	064 to 191	
6	SBO	AD SUB B OFFSET <	<=> :***	AD (IC6602) SUB B OFFSET adj. (for sub screen)	064 to 191	

[&]quot;***" in the table above represents the adjustment value.

The value of each subitem can be changed using the ◀ or ▶ key.

Note: The differences in signals for the main and sublevel screens from the RGB Assy are compensated, and the compensation data are stored in the EEPROM (IC7205) for each screen.

2. COMMON-RGB 2



No.	Corresponding 232C Command	Function/Display	Content	Adjustable range	Remarks
1	ADC	AD MAIN CONTRAST<=>: ***	AD (IC6001) MAIN RGB GAIN adj. (for main screen)	000 to 255	

[&]quot;***" in the table above represents the adjustment value.

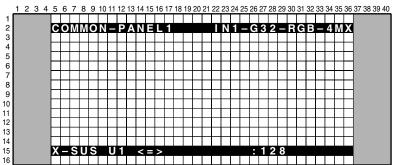
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The value of each subitem can be changed using the ◀ or ▶ key.

3. COMMON-PANEL1



Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

No.	Corresponding 232C Command	Function/Display	Content	Adjustable Range
1	XU1	X-SUS U1 <=> : ***	Adjustment of X-SUS leading edge pulse U1	124 to 132
2	XU2	X-SUS U2 <=> : ***	Adjustment of X-SUS leading edge pulse U2	124 to 132
3	XD1	X-SUS D1 <=> : ***	Adjustment of X-SUS trailing edge pulse D1	124 to 132
4	XD2	X-SUS D2 <=> : ***	Adjustment of X-SUS trailing edge pulse D2	124 to 132
5	YU1	Y-SUS U1 <=> : ***	Adjustment of Y-SUS leading edge pulse U1	124 to 132
6	YU2	Y-SUS U2 <=> : ***	Adjustment of Y-SUS leading edge pulse U2	124 to 132
7	YD1	Y-SUS D1 <=> : ***	Adjustment of Y-SUS trailing edge pulse D1	124 to 132
8	YD2	Y-SUS D2 <=> : ***	Adjustment of Y-SUS trailing edge pulse D2	124 to 132
9	YD3	Y-SUS D3 <=> : ***	Adjustment of X-SUS trailing edge pulse D3	124 to 132
10	YD4	Y-SUS D4 <=> : ***	Adjustment of X-SUS trailing edge pulse D4	124 to 132
11	VSU	VLT-SUS <=> : ***	SUS voltage adjustment	000 to 255
12	VOF	VLT-OFS <=> : ***	OFFSET voltage adjustment	000 to 255

[&]quot;***" in the table above represents the adjustment value.

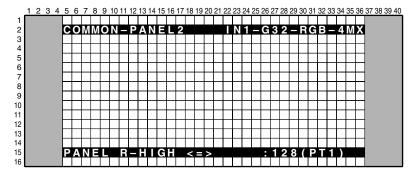
The value of each subitem can be changed using the \blacktriangleleft or \blacktriangleright key.

Notes:

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- Adjustments No. 1 to No. 10 above are not normally required, unless so instructed by Service Information, etc.
- Readjustment of values for No. 11 [VSU] and No. 12 [VOF] are required when the service panel is replaced.

4. COMMON-PANEL2



Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

No.	Corresponding 232C Command	Function/Display	Content	Adjustable Range
1	PRH	PANEL R HIGH <=> : *** (PTO)	Panel W/B R-HIGH adjustment	000 to 511
2	PGH	PANEL G HIGH <=> : *** (PTO)	Panel W/B G-HIGH adjustment	000 to 511
3	PBH	PANEL B HIGH <=> : *** (PTO)	Panel W/B B-HIGH adjustment	000 to 511
4	PRL	PANEL R LOW <=> : *** (PTO)	Panel W/B R-LOW adjustment	000 to 999
5	PGL	PANEL G LOW <=> : *** (PTO)	Panel W/B G-LOW adjustment	000 to 999
6	PBL	PANEL B LOW <=> : *** (PTO)	Panel W/B B-LOW adjustment	000 to 999
7	ABL	ABL LEVEL <=> : *** (ABx)	Power consumption adjustment	000 to 999

"***" in the table above represents the adjustment value.

The value of each subitem can be changed using the ◀ or ▶ key.

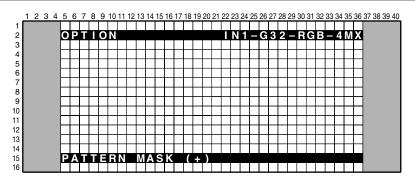
White balance adjustment (From No.1 to No.6). (Refer to 116 pages of the "[W/B-adjustment procedurs]")

Notes: Adjustments No. 7: [ABL] above are not normally required, unless so instructed by Service Information, etc. "(PTO)" and "(ABx)" in the table above represent the following:

Indication	Table
PT1	For PC and NTSC
PT2	For PAL, For PC (48Hz)

Indication Table	
AB1	For 60Hz and 75Hz video
AB2	For 50Hz video, For 48Hz PC
AB3	For PC

OPTION mode



Select the main item "OPTION" using the MUTE key then select the subitems shown in the table below using the ▲ or ▼ key.

No.	Function/Display	Content	Remarks
1	PATTERN MASK (+)	For selecting Pattern mask of IC4	A lower layer exists.
2	FULL MASK (+)	For selecting raster mask of IC4	A lower layer exists.
3	DYNAMIC RANGE	ON ⇔ OFF	The last setting is not stored in memory (initial setting: ON).
4	EDID WRITE MODE	DISABLE ⇔ ENABLE	The last setting is not stored in memory (initial setting: DISABLE).
5	INTEGRATOR MODE	DISABLE ⇔ ENABLE	Initial setting: ENABLE

Note:

- For PATTERN MASK (+) and FULL MASK (+), press the SET key to switch to the lower layer.
- Adjustments No. 3 to 5 above are not required for servicing.

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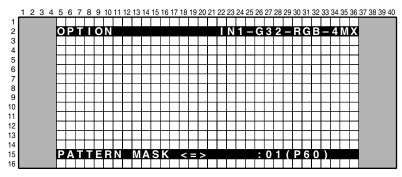
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To select the mask frequency, use the \blacktriangleleft or \blacktriangleright key. To select the mask pattern, use the \blacktriangle or \blacktriangledown key.

Mask Frequency

No.	Corresponding RS-232C Command	Function/ Display	Content
1	F48	V48	Video 48-Hz sequence
2	F50	V50	Video 50-Hz sequence
3	F60	V60 (initial value)	Video 60-Hz sequence
4	F61	P60	PC 60-Hz sequence
5	F70	P70	PC 70-Hz sequence
6	F72	V72	Video 72-Hz sequence
7	F75	V75	Video 75-Hz sequence

Pattern Mask

No.	Corresponding RS-232C Command	Function/ Display	Content
1	M00	OFF	Mask mode: OFF
2	M01	01	White 0 to 100%
3	M02	02	Aging mask
4	M03	03	Aging mask (detection of still picture: OFF)
5	M10	10	H RAMP1
6	M11	11	H RAMP2
7	M12	12	H RAMP3
8	M13	13	H RAMP4
9	M14	14	V RAMP
10	M15	15	H/V RAMP
11	M20	20	Window0
12	M21	21	Window1
13	M22	22	Window2
14	M23	23	Window3
15	M24	24	Window4
16	M25	25	Window5
17	M26	26	Window6
18	M27	27	Window7
19	M28	28	Window8
20	M29	29	Window9
21	M2E	2E	Wiper for erasing afterimage
22	M30	30	COLOR BAR
23	M31	31	Slanted lines

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Full Mask

No.	Corresponding RS-232C Command	Function/ Display	Content
1	M00	OFF	Mask mode: OFF
2	M51	51	Raster – White
3	M52	52	Raster – Red
4	M53	53	Raster – Green
5	M54	54	Raster – Blue
6	M55	55	Raster – Black
7	M56	56	Raster – Cyan
8	M57	57	Raster – Mazenta
9	M58	58	Raster – Yellow
10	M59	59	Raster – Cyan 274
11	M60	60	Raster – 50 fresh color
12	M61	61	Raster – 50 purple
13	M62	62	Raster – 50 sky blue
14	M63	63	Raster – Red 779
15	M64	64	Raster – Cyan 218
16	M65	65	Raster – Cyan 448
17	M66	66	Raster – 43 fresh color
18	M67	67	Raster – Red 640
19	M68	68	Raster – Mazenta 98
20	M69	69	Raster – 43 sky blue 1
21	M70	70	Raster – 43 sky blue 2
22	M71	71	Raster – 43 purple
23	M72	72	Raster – Blue 960
24	M73	73	Raster – Yellow 512
25	M74	74	Raster – Gray 512

3. DYNAMIC RANGE

The setting can be changed using the \blacktriangleleft or \blacktriangleright key.

No.	Corresponding RS-232C Command	Function/ Display	Content
1	DYY	ON	DYNAMIC RANGE correction: ON (initial setting)
2	DYN	OFF	DYNAMIC RANGE correction: OFF

4. EDID WRITE MODE

The setting can be changed using the \blacktriangleleft or \blacktriangleright key.

No.	Corresponding RS-232C Command	Function/ Display	Content
1	EWN	DISABLE	Prohibiting writing EDID data (initial setting)
2	EWY	ENABLE	Enabling writing EDID data

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5. INTEGRATOR MODE

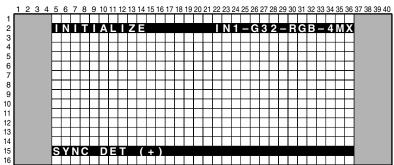
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The setting can be changed using the ◀ or ▶ key.

No.	Corresponding Function/ RS-232C Command Display		Content
1	_	ENABLE	Permitting INTEGRATOR MODE (initial setting)
2	_	DISABLE	Prohibiting INTEGRATOR MODE

INITIALIZE mode



The subitems can be changed using the \blacktriangle or \blacktriangledown key. С

No.	Corresponding RS-232C Command Function/Display		Content
1	_	SYNC DET (+)	(Not used)
2	_	DRIVE MODE (+)	(Not used)
3	_	SIDE MASK LEVEL (+)	(Not used)
4	_	PANEL REVICE (+)	(Not used)
5	FST	FINAL SETUP	For initializing user's settings and some factory settings
6	_	C TEMP LOW (+)	
7	_	C TEMP MID LOW (+)	
8		C TEMP STD (+)	For adjusting the user's C TEMP MODE item selected
9		C TEMP MID HIGH (+)	To adjusting the daet a o Telvir MODE item selected
10	_	C TEMP HIGH (+)	
11	_	C TEMP MODE2 (+)	(Not used)
12	_	SLOT PROTECT<=>	For setting permission/prohibition of SLOT

Note: Any item followed by (+) has a lower layer to which you can switch using the SET key.

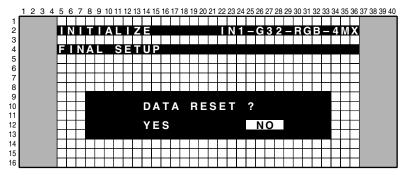
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1. FINAL SETUP

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Select YES or NO using the ◀ or ▶ key then press the SET key for finalizing the selection:

YES: For executing FINAL SETUP NO: For not executing FINAL SETUP

In FINAL SETUP, the following items can be initialized:

	Item (operation)	Factory setting	Remarks
Normal	Input function (main)	INPUT1	
	Input function (sub)	INPUT2	
	Screen size	VIDEO WIDE or FULL	The screen-size setting will be one of the factory-preset
		PC DOT BY DOT or FULL or 4:3 or PARTIAL	values, based on the results of signal-type detection (SIG-MODE).
	Volume	0	
	Multi screen	OFF	
	FUNCTIONAL LOCK	LOCK OFF	
Menu	PICTURE	Default setting for all adjustment items	For each input function
setting	SCREEN	Default setting for all adjustment items	For each input function
	POWER MANAGEMENT	OFF	For each input function
	AUTO POWER OFF	DISABLE	For each input function
	COLOR TEMP.	MIDDLE	For each input function
	DNR	MIDDLE	For each input function
	MPEG NR	LOW	For each input function
	СТІ	ON	For each input function
	PURECINEMA	OFF	For each input function
	COLOR DECODING	COMPONENT 1 or COMPONENT 2	One of the factory-preset signals is output, based on the results of signal-type detection (SIG-MODE) for the input function.
	CLAMP POSITION	AUTO	For each input function
	COLOR SYSTEM	AUTO	For each input function
	SIGNAL FORMAT	VGA or XGA or SXGA or 720-PC *	One of the factory-preset signals is output, based on the results of signal-type detection (SIG-MODE) for the input function.
	LANGUAGE	ENGLISH	
	ENERGY SAVE	STANDARD	
	SCREEN MGT.	OFF/ 01H00M	
	ORBITER	OFF	
	MASK CONTROL	ON	
	AUTO SET UP MODE	INACTIVE	
	AUTO FUNCTION	OFF	
	AUDIO OUT	FIXED	

^{* 720-}PC selectable only with video card is inserted

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	Item (operation)	Factory setting	Remarks
Integrator	PICTURE	Default setting for all adjustment items	For each input function
menu	WHITE BAL.	Default setting for all adjustment items	For each input function
setting	SCREEN	Default setting for all adjustment items	For each input function
	GRADATION	VIDEO DRE MID PC GAMMA 2.0	The screen-size setting will be one of the factory-preset values, based on the results of signal-type detection (SIG-MODE).
	BRT. ENHANCE	OFF	For each input function
	SUB VOLUME	20	For each input function
	SCREEN MGT. SET	00H10M/00H30M/WHITE/ 00H10M/INV.1/1	
	SCREEN MASK	OFF	
	SIDE MASK	NORMAL/80/80/80	
	2x2 MODE	OFF/UP LEFT/NORMAL	
	MIRROR MODE	OFF	
	BAUD RATE	9600BPS	
	ID NO. SET		
	OSD	ON	
	FRONT INDICATOR	ON	
	FAN CONTROL	AUTO	
	COLOR MODE	NORMAL	
	PRO USE	OFF/OFF/DISABLE/ MOTION	
	FRC	MODE1	
Factory	PATTERN MASK	OFF	
	FULL MASK	OFF	
	EDIT WRITE MODE	DISABLE	
232C	LOUDNESS	OFF	

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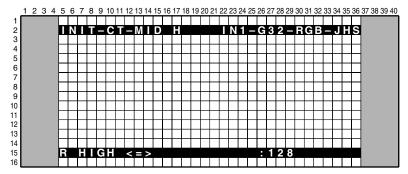
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2. C TEMP

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The indication on the 2nd line in the above display varies according to the subitem selected in the upper layer, as follows: INIT-CT- ****

****: LOW/MID L/STD/MID H/HIGH/MOD2

Notes: Adjustments are not normally required, unless so instructed by Service Information, etc.

Each time the ▲ or ▼ key is pressed, items grouped under the subitems are changed, as follows:

No.	Function/Display	Content			
1	R HIGH <=>	For adjusting R highlight in the selected color temperature mode			
2	G HIGH <=>	For adjusting G highlight in the selected color temperature mode			
3	B HIGH <=>	For adjusting B highlight in the selected color temperature mode			
4	R LOW <=>	For adjusting R lowlight in the selected color temperature mode			
5	G LOW <=>	For adjusting G lowlight in the selected color temperature mode			
6	B LOW <=>	For adjusting B lowlight in the selected color temperature mode			

To change the value of each item, press the ◀ or ► key.

3. SLOT PROTECT

			Result of Distinction				
Option No.	Function/ Display	Operation/Control	PDA-5002	PDA-5003 PDA-5004	3G-TYPE * (* A - H)	4G-TYPE * (* A - J)	
1 (initial setting)	ALL	Permitting all Video card	×	0	0	0	
2	P-SLOT	Permitting only the Video card (PDA-5003/ PDA- 5004) made by Pioneer	×	0	×	×	

- O: Operable according to the setting x: The corresponding Video card will be treated as an incompatible Video card.
- When a disallowed video card is inserted, the power is not turned on, and the red and green LEDs flash alternatively.
- For details on results of distinction, see "SLOT-DET of the VERSION (2)."

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6.4 COMMAND DESCRIPTION

About GET Command

Operation description of GET command

■ Conditions under which GET commands are enabled

Most of the GET commands are enabled at any time, regardless of unit's being on/off or in Factory or Normal mode. However, some GET commands must be issued while the power is on to acquire correct data.

[Operations]

- Reading out and sending various data stored in the EEPROMs and the RAMs of microcomputers
- Adding a received string of command characters at the beginning of reply data as an echoback
- Decimal notation are converted into ASCII numerics and transmitted.
- "CS" represents an ASCII code consisting of two hexadecimal alphanumerics, and the sum of CS +transmission data(excl. STX and ETX) must be 0.

■ Reply data format

	STX	Received command (3byte)	Transmission data	•••	Transmission data	CS (2byte)	ETX
Example:	[02]	GAS	2	•••	0	97	[03]

GST: GET STATUS

Order	Data	Size	Remarks
1	Display data	3 byte	See the table below.
2	Power data	3 byte	See the table below. (The third character is for the subinput.)
3	Input function data (main)	3 byte	Input data during GST reception (INPUTs 1 to 5 are indicated as IN 1-5.)
4	Input function data (sub)	3 byte	Subinput data during GST reception (INPUTs 1 to 5 are indicated as IS 1-5.)
5	Screen size data	1 byte	See the table below.
6	Two-screen indication	1 byte	0: OFF (Full-screen) 1: 2-SCREEN 2: PinP (Lower right) 3: PinP (Upper right) 4: PinP (Upper left) 5: PinP (Lower left) 6: PoutP
7	FUNCTIONAL LOCK data	1 byte	0: LOCK OFF 1: BUTTONS LOCK 2: IR LOCK 3: IR&BUTTONS LOCK 4: MEMORY LOCK
8	Dummy data	3 byte	(Three-digit figure)
9	Temperature data 2 (TEMP2)	3 byte	°C (*)
10	Temperature data 3 (TEMP3)	3 byte	°C (*)
11	Serial	15 byte	
12	Dummy data	3 byte	(Three-digit figure)
13	Dummy data	3 byte	
14	HOUR METER data	5 byte	Indicated in hours
15	Dummy data	2 byte	(Checksum)

Display data	1st character 2nd character 3rd character	Data on generation: 4 (Fixation) Data on screen size: 4 (43 inches), 5 (50 inches) Data on destination: M (Fixation)
Power data	1st character 2nd character	Power status and signal status PN (power on & at usually, of signal Input), PL (power on & no input), PO (power on & out of range signal Input), SN (stand by/ on), SW (power management standby), SS (SD and PD standby),
	3rd character	Multi screen features. The sub signal state of a input (see Note. 2) N (at usually, of signal Input), L(no Input), O (out of range in signal Input)
Screen size data	1st character	Numbers used are the same as those that indicate SIG-MODE screen sizes. 0: Dot by Dot PARTIAL, 1: 4:3, 2: FULL or FULL1080i, 3: ZOOM, 4: WIDE, 6: CINEMA, 8: FULL1035i, 9: UNDERSCAN

Not.1: During Standby or immediately after the power is turned on, accurate temperature data cannot be obtained. To obtain an accurate temperature reading, wait for a few minutes after the power is turned on.

Not.2: During Standby or full-screen display, dummy data (symbols) are output.

Not.3: During Standby or full-screen display, values stored in memory of the unit are output.

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GS1: Returning information on the model and the version of the software

Order	Data	Size
1	Data on the display	3 byte
2	Version of the module microcomputer	4 byte
3	Version of the IC4-MANTA	4 byte
4	Sequence version (50VIDEO)	4 byte
5	Sequence version (50PC)	4 byte
6	Sequence version (43VIDEO)	4 byte
7	Sequence version (43PC)	4 byte
8	Version of the IF microcomputer	4 byte
9	Version of the main microcomputer	4 byte
10	Version of the IC3-MANTA	4 byte
11	Version of the OSD	4 byte
12	Dummy	12 byte

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Breakdown of the data on the display

Data	Model	
MX5	PDP-504CMX series	
MX4	PDP-434CMX series	

GPW: RGB-level-related adjustment values of the panel system

Order	Data	Size
1	Panel W/B table currently used	3 byte
2	Main contrast	4 byte
3	Red high light of the W/B adjustment value	4 byte
4	Green high light of the W/B adjustment value	4 byte
5	Blue high light of the W/B adjustment value	4 byte
6	Main brightness	4 byte
7	Red low light of the W/B adjustment value	4 byte
8	Green low light of the W/B adjustment value	4 byte
9	Blue low light of the W/B adjustment value	4 byte

Data	Table	
PT1	WB table for NTSC	
PT2	WB table for PAL	
PT3	Reserved table	

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GPD: Power-down information

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Order	Data	Size	Order	Data	Size
1	Latest "1st PD" data	1 byte	17	Fifth latest "1st PD" data	1 byte
2	Latest "2nd PD" data	1 byte	18	Fifth latest "2nd PD" data	1 byte
3	Data of hour meter for the latest PD	7 byte	19	Data of hour meter for the fifth latest PD	7 byte
4	Data on temperature for the latest PD (TEMP1)	3 byte	20	Data on temperature for the fifth latest PD (TEMP1)	3 byte
5	Second latest "1st PD" data	1 byte	21	Sixth latest "1st PD" data	1 byte
6	Second latest "2nd PD" data	1 byte	22	Sixth latest "2nd PD" data	1 byte
7	Data of hour meter for the second latest PD	7 byte	23	Data of hour meter for the sixth latest PD	7 byte
8	Data on temperature for the second latest PD (TEMP1)	3 byte	24	Data on temperature for the sixth latest PD (TEMP1)	3 byte
9	Third latest "1st PD" data	1 byte	25	Seventh latest "1st PD" data	1 byte
10	Third latest "2nd PD" data	1 byte	26	Seventh latest "2nd PD" data	1 byte
11	Data of hour meter for the third latest PD	7 byte	27	Data of hour meter for the seventh latest PD	7 byte
12	Data on temperature for the third latest PD (TEMP1)	3 byte	28	Data on temperature for the seventh latest PD (TEMP1)	3 byte
13	Fourth latest "1st PD" data	1 byte	29	Eighth latest "1st PD" data	1 byte
14	Fourth latest "2nd PD" data	1 byte	30	Eighth latest "2nd PD" data	1 byte
15	Data of hour meter for the fourth latest PD	7 byte	31	Data of hour meter for the eighth latest PD	7 byte
16	Data on temperature for the fourth latest PD (TEMP1)	3 byte	32	Data on temperature for the eighth latest PD (TEMP1)	3 byte

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Hour meter data; 1 to 5 byte: time, 6 to 7 byte: minute

• Details on "1st/2nd PD" data

Data	Power-down Point
0	No power-down
1	Not used (for MR-POWER)
2	P-POWER
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADRS
9	X-DRIVE
Α	X-DCDC
В	X-SUS
С	DIG-DCDC
D, E	Spare
F	Power-down point not identified

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GNG: NG history

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Order	Data	Size	Order	Data	Size
1	Latest SD data	1 byte	17	Fifth latest SD data	1 byte
2	Data of subcategory for the latest SD	1 byte	18	Data of subcategory for the fifth latest SD	1 byte
3	Data of hour meter for the latest SD	7 byte	19	Data of hour meter for the fifth latest SD	7 byte
4	Data on temperature for the latest SD	3 byte	20	Data on temperature for the fifth latest SD	3 byte
5	Second latest SD data	1 byte	21	Sixth latest SD data	1 byte
6	Data of subcategory for the second latest SD	1 byte	22	Data of subcategory for the sixth latest SD	1 byte
7	Data of hour meter for the second latest SD	7 byte	23	Data of hour meter for the sixth latest SD	7 byte
8	Data on temperature for the second latest SD	3 byte	24	Data on temperature for the sixth latest SD	3 byte
9	Third latest SD data	1 byte	25	Seventh latest SD data	1 byte
10	Data of subcategory for the third latest SD	1 byte	26	Data of subcategory for the seventh latest SD	1 byte
11	Data of hour meter for the third latest SD	7 byte	27	Data of hour meter for the seventh latest SD	7 byte
12	Data on temperature for the third latest SD	3 byte	28	Data on temperature for the seventh latest SD	3 byte
13	Fourth latest SD data	1 byte	29	Eighth latest SD data	1 byte
14	Data of subcategory for the fourth latest SD	1 byte	30	Data of subcategory for the eighth latest SD	1 byte
15	Data of hour meter for the fourth latest SD	7 byte	31	Data of hour meter for the eighth latest SD	7 byte
16	Data on temperature for the fourth latest SD	3 byte	32	Data on temperature for the eighth latest SD	3 byte

Hour meter data; 1 to 5 byte: time, 6 to 7 byte: minute

• Details on the SD data

Data	Cause of Shutdown
0	No abnormality
1	IC4
2	Module microcomputer IIC
3	Abnormality in DIG-RST2 (power decrease of ASIC)
4	Panel having abnormally high temperature
5	Audio failure (short-circuiting of the speakers)
6	Communication failure of the module microcomputer
7	Three-wire serial communication failure of the main microcomputer
8	IIC communication failure of the main microcomputer
9	Communication failure of the main microcomputer
Α	Fan stopped
В	Temperature abnormality
D	Abnormality in MAIN-RST2
F	Others

• Data on the subcategories for the module microcomputer IIC

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (4k)
2	EEPROM (2k)

• Data on the subcategories for failure in 3-wire serial communication of the main microcomputer

Data	Cause of Shutdown	
0	No subcategory	
1	Communication failure of the IF microcomputer	
2	IC2 communication failure	
3	IC3 communication failure	

• Data on the subcategories for failure in IIC communication of the main microcomputer

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (128k)
2	GCR
3	IC1 main
4	IC1 sub
5	AD-PLL main
6	AD-PLL sub
7	IC6
8	HDMI1
9	HDMI2
Α	7.3VIDEO SW
В	6.2RGB SW
С	Front end 1
D	Front end 2
E	C.C. UCOM/TELETEXT UCOM
F	EEPROM (SLOT)
G	Not used
Н	EDID ROM
N	IC6/2 (CMX)

• Subcategory data on abnormal temperature

Data	Cause of Shutdown	
2	Temperature inside the unit (INSIDE)	
3	Ambient temperature (AIR)	

• Subcategory data on other failures

Data	Cause of Shutdown
1	Optical sensor (RLS)
2	Power monitor 1 (VCC-D1)
3	Power monitor 1 (VCC-D2)

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GS2: Status information

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Order	Data	Size	Remarks
1	Notifying of switching to Standby mode	1 byte	1: Successfully switched to Standby mode
2	Whether the unit has already been adjusted or not	1 byte	0: Adjusted, 1: Not adjusted
3	With/without backup of adjustment data	1 byte	0: With backup, 1: Without backup
4	Power-down information	2 byte	1st byte: 1st PD, 2nd byte: 2nd PD
5	Temperature information (TEMP1)	3 byte	000 to 255
6	Abnormality in RST2 (power decrease of the DC-DC converter)	1 byte	
7	IC4 communication failure	1 byte	
8	EEPROM communication failure	1 byte	0: Normal, 1: Shutdown process caused by an abnormality
9	Failure in audio	1 byte	completed, 2: In the process of displaying a warning against shutdown caused by an abnormality
10	Communication failure of the volume IC	1 byte	Shudown caused by an abhornality
11	Backup-ROM communication failure	1 byte	
12	Failure in temperature information (TEMP1)	1 byte	
13	Activation of panel protection	1 byte	0: Panel protection not activated, 1: Panel protection being activated
14	(Reservation)	9 byte	******
15	Hour meter	7 byte	1st-5th bytes: Hour, 6-7th bytes: Minute

• Power-down information

Data	Power-down point
0	No power-down
1	Not used
2	P-POWER
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADRS
9	X-DRIVE
Α	X-DCDC
В	X-SUS
С	DIG-DCDC
D	Reservation
Е	Reservation
F	Power-down point not identified

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GPM: Value of the pulse meter

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Order	Data	Size
1	Pulse meter (Block area 1)	10 byte
2	Pulse meter (Block area 2)	10 byte
3	Pulse meter (Block area 3)	10 byte
4	Pulse meter (Block area 4)	10 byte
5	Pulse meter (Block area 5)	10 byte

Note:

The number of electric discharges at each block is displayed. The first digit represents the number of tens of thousands.

[Location of the block areas from which values from the pulse meter are obtained]

						Block ①										
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	ı
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	ı
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	ı
48	49	50	51	52	53	54	55	56	57	58	59	60_	Block ②	62	63	ı
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	ı
80	81	82	83	84	85	86_	87	88	89	90	91	92	93	94	95	ı
96	97	98	99	100	101	10	Block ③	104	105	106	107	108	109	110	111	ı
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	ı
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	ı
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	Block	(4)
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	1
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	ı
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	ı
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	ı
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	ı
			Block ⑤				_	_				_				

GPC: Number of times the power was turned on

Order	Data	Size
1	Power-on counter	8 byte

GAJ: Drive-related adjustment values

Order	Data	Size
1	ABL table currently used	3 byte
2	Upper limit of the power	3 byte
3	Vsus adjustment value	3 byte
4	4 Vofs adjustment value	
5	X-SUS-U1 adjustment value (XU1)	3 byte
6	X-SUS-U2 adjustment value (XU2)	3 byte
7	X-SUS-D2 adjustment value (XD2)	3 byte
8	X-SUS-D1 adjustment value (XD1)	3 byte
9	Y-SUS-U1 adjustment value (YU1)	3 byte
10	Y-SUS-U2 adjustment value (YU2)	3 byte
11	Y-SUS-D1-2 adjustment value (YD2)	3 byte
12	Y-SUS-D1-1 adjustment value (YD1)	3 byte
13	Y-SUS-D2-2 adjustment value (YD4)	3 byte
14	Y-SUS-D2-1 adjustment value (YD3)	3 byte

Data Table						
AB1	ABL table for NTSC					
AB2	ABL table for PAL, ABL table for PC (48Hz)					
AB3	ABL table for PC					

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LIST OF RS-232C COMMAND

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Command	Operation	Validity of Direct Numeric Input	Lower limit	Upper limit	Remarks
[A]			<u> </u>		
ABL	Adjusting power consumption	0	000	255	
ADC	AD CONTRAST adjustment	0	000	255	
AMN	Audio MUTE OFF				
AMY	Audio MUTE ON				
AST	Execution of auto setup				The values for positions are not stored in memory in Factory mode
[B]	·				
BCP	Transmitting the backup data to the DIGITAL VIDEO Assy				
BRA	Indicate a current baudrate				
BRAS01	Setting the UART to 232C (1200 bps)				
BRAS02	Setting the UART to 232C (2400 bps)				
BRAS03	Setting the UART to 232C (2400 bps)				
BRAS04	Setting the UART to 232C (4600 bps)				
BRAS05					
BRAS06	Setting the UART to 232C (19200 bps) Setting the UART to 232C (38400 bps)				
BYG		0	000	255	
	Adjusting BY GAIN	0	000	255	
[C] CNG	MR NG INFORMATION CLEAR				
CPC	Clearing the power-on counter				
CPD	Clearing power-down information				
[D]	- · · · · · · · · · · · · · · · · · · ·				D 177 00D 17 7
DIN	Turning off the on-screen display				Prohibit OSD indication
DIY	Turning on the on-screen display				While the DIY command is in force, the duration of OSD is unlimited.
DOF	Erasing the currently displayed indications				If another command is received, an OSD is displayed.
DRF	Turning off the power for the drive system				Return to the DRN state by turning the power off
DRN	Turning on the power for the drive system				
DW0	Decresing the adjustment value by 10				
DWn	Decreasing the adjustment value by n (n=1 to 9)				
DWF	Minimizing the adjustment value				
DYN	No D-range correction				
DYY	With D-range correction				
[E]					
EWN	Prohibiting writing of EDID data				
EWY	Permitting writing of EDID data				
[F]					
F48	Video 48-Hz sequence				
F50	Video 50-Hz sequence				
F60	Video 60-Hz sequence				
F61	PC 60-Hz sequence				
F70	PC 70-Hz sequence				
F72	Video 72-Hz sequence				
F75	Video 75-Hz sequence				
FAJ	Determining the adjustment flag of the DIGITAL VIDEO Assy in "adjustment is completed"				
FAN	Turning Service Factory mode off				The OSD equivalent to that usually displayed when th power is turned on is displayed.
FAY	Turning Service Factory mode on				
FCA	Turning fan roll control to auto				
FCM	Maximizing the fan roll control				
FST	Executing FINAL SETUP				
FXO	Selecting audio output fixing				
[G]					
GAJ	Obtaining the adjustment values for the panel				
GMM	Switching the gamma	0	000	007	
GNG	Obtaining the shutdown information				

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1 2 3 4

		Validity of			T
Command	Operation	Validity of Direct Numeric Input	Lower limit	Upper limit	Remarks
GNP	Obtaining the serial no.				
GPC	Obtaining the P ON COUNTER value				
GPD	Obtaining power-down information				
GPM	Obtaining the PULSE METER data				
GPP	Obtaining the PD polling log				
GPW	Obtaining the PANEL W/B data				
GS1	Obtaining the version data for each device				
GS2	Obtaining the temperature data and unit state				Data of module microcomputer system
GS4	Obtaining Factory information				
GST	Obtaining the temperature data and unit state				Data of main microcomputer system
GYG	FY GAIN	0	000	255	
[H]					
HMD	Indicating the hour meter				
[1]					
IDC	Clearing the ID				
IDS	Setting the ID	0	(00)	(FF)	
IN1	Switching the main screen to Input 1				
IN2	Switching the main screen to Input 2				
IN3	Switching the main screen to Input 3				
IN4	Switching the main screen to Input 4				
IN5	Switching the main screen to Input 5				
INP	Indicating the input function of current main screen				
INPS01	Switching the main screen to Input 1				
INPS02	Switching the main screen to Input 2				
INPS03	Switching the main screen to Input 3				
INPS04	Switching the main screen to Input 4				
INPS05	Switching the main screen to Input 5				
[L]					
LNN	Prohibiting LOUDNESS				
LNY	Permitting LOUDNESS				
[M]					
M00	Mask mode: OFF				
M01	White: 0 to 100%				
M02	Aging mask				
M03	Aging mask (detection of still picture: OFF)				
M10	RAMP slant 1				
M11	RAMP slant 4				
M12	RAMP slant 1 shifting				
M13	RAMP slant 4 shifting				
M14	V RAMP				
M15	H/V RAMP				
M20	WINDOW-Low: 102 / High: 870				
M21	WINDOW-Low: 102 / High: 1023				
M22	WINDOW-Low: 0 / High: 1023				
M23	WINDOW-High: 1023 (CENTER)				
MOA	WINDOW-PEAK WINDOW				
M24	WINDOW-1/7 vertical window				
M25	Trinib Cir. III. Torilloui Illinoon	1			
	WINDOW-magenta/green stripe				
M25					
M25 M26	WINDOW-magenta/green stripe				
M25 M26 M27	WINDOW-magenta/green stripe WINDOW-green/magenta stripe Window (black & white [1 x 8], checkered pattern [for EMG check])				
M25 M26 M27 M28	WINDOW-magenta/green stripe WINDOW-green/magenta stripe Window (black & white [1 x 8], checkered pattern [for EMG check]) Window (for W/B adjustment, magenta, yellow)				
M25 M26 M27 M28 M29 M2E	WINDOW-magenta/green stripe WINDOW-green/magenta stripe Window (black & white [1 x 8], checkered pattern [for EMG check])				
M25 M26 M27 M28 M29 M2E M2F	WINDOW-magenta/green stripe WINDOW-green/magenta stripe Window (black & white [1 x 8], checkered pattern [for EMG check]) Window (for W/B adjustment, magenta, yellow) Wiper to prevent phosphor burn Warning mask of cable disconnection (Red and green light alternately)				
M25 M26 M27 M28 M29 M2E	WINDOW-magenta/green stripe WINDOW-green/magenta stripe Window (black & white [1 x 8], checkered pattern [for EMG check]) Window (for W/B adjustment, magenta, yellow) Wiper to prevent phosphor burn				

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1 2 3 4

Command	Operation	Validity of Direct Numeric Input	Lower limit	Upper limit	Remarks
M52	Raster-red				
M53	Raster-green				
M54	Raster-blue				
M55	Raster-black				
M56	Raster-cyan				
M57	Raster-magenta				
M58	Raster-yellow				
M59	Raster-cyan 274				
M60	Raster-50 flesh color				
M61	Raster-50 light purple				
M62	Raster-50 sky blue				
M63	Raster-red 779				
M64	Raster-cyan 218				
M65	Raster-cyan 448				
M66	Raster-43 flesh color				
M67	Raster-red 640				
M68					
	Raster-magenta 98				
M69	Raster-43 sky blue 1				
M70	Raster-43 sky blue 2				
M71	Raster-43 light purple				
M72	Raster-blue 960				
M73	Raster-yellow 200				
M74	Raster-gray 511 (spare)				
MBG	AD MAIN B GAIN	0	000	255	
MBO	AD MAIN B OFFSET	0	000	255	
MCD	Indicating the current color decoding				
MCDS01	Setting the color decoding to RGB (VIDEO)				
MCDS02	Setting the color decoding to COMPONENT1 (YCbCr)				
MCDS03	Setting the color decoding to COMPONENT2 (YPbPr)				
MGG	AD MAIN G GAIN	0	000	255	
MGO	AD MAIN G OFFSET	0	000	255	
MRG	AD MAIN R GAIN	0	000	255	
MRO	AD MAIN R OFFSET	0	000	255	
MTN	Turning the video mute off				
MTY	Turning the video mute on				
[N]					
NGN	Prohibiting shutdown operation				No writing of the latest data
[P]		•			
PAF	PEAK LIMITER OFF				
PAN	PEAK LIMITER ON				
PBH	Panel W/B B-HIGH adjustment	0	000	511	
PBL	Panel W/B B-LOW adjustment	0	000	999	
PDN	Do not pass a PD signal through the POWER SUPPLY Unit	 	- 550	- 555	
PDY	Pass a PD signal through the POWER SUPPLY Unit				
PGH	Panel W/B G-HIGH adjustment	0	000	511	
PGL	-	0		999	
PMD	Panel W/B G-LOW adjustment		000	999	
	Indicating the pulse meter	-			
POF	Turning the power OFF		000	F4.4	
PRH	Panel W/B R-HIGH adjustment	0	000	511	
PRL	Panel W/B R-LOW adjustment	0	000	999	
[R]		1			
RYG	RY GAIN	0	000	255	
[S]		1			
SBG	AD SUB B GAIN	0	000	255	
SBO	AD SUB B OFFSET	0	064	191	
SFT					

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1 2 3 4

Command	Operation	Validity of Direct Numeric Input	Lower limit	Upper limit	Remarks
SFTS01	Setting the signal format to PC FORMAT1 (VGA or XGA or SXGA or 720-PC)				
SFTS02	Setting the signal format to PC FORMAT2 (WVGA or WXGA or SXGA+)				
SFTS03	Setting the signal format to (VIDEO) 525p or 750p				
SFTS04	Setting the signal format to PC AUTO				
SGG	AD SUB G GAIN	0	000	255	
SGO	AD SUB G OFFSET	0	064	191	
SN0	Setting 1, 2, or 3 for the serial number of the panel				
SN1	Setting 4, 5, or 6 for the serial number of the panel				
SN2	Setting 7, 8, or 9 for the serial number of the panel				
SN3	Setting 10, 11, or 12 for the serial number of the panel				
SN4	Setting 13, 14, or 15 for the serial number of the panel				
SRG	AD SUB R GAIN	0	000	255	
SRO	AD SUB R OFFSET	0	064	191	
SVL	Adjusting the sub volume	0	000	020	
SWM	Full-screen display of main output		000	020	
SWN					
	Main/sub displays OFF				
SWS	Full-screen display of sub output				
SZM	Indicating the current screen size setting				
SZMS00	Setting the screen size to Dot by Dot or PARTIAL				
SZMS01	Setting the screen size to 4:3				
SZMS02	Setting the screen size to FULL or FULL1080i				
SZMS03	Setting the screen size to ZOOM				
SZMS04	Setting the screen size to CINEMA				
SZMS05	Setting the screen size to WIDE				
SZMS06	Setting the screen size to FULL1035i				
[U]					
UAJ	Determining the adjustment flag of the DIGITAL VIDEO Assy in "adjustment is completed"				
UP0	Increasing the adjustment value by 10				
UPn	Increasing the adjustment value by n (n=1 to 9)				
UPF	Maximizing the adjustment value				
[V]					
VOF	Offset voltage adjustment	0	000	255	
VOL	Adjusting the audio volume	0	000	045	
VRO	Selecting the variable audio output				
VSG	CVY GAIN	0	064	191	
VSO	Adjusting the CV/YC input with difference in the input	0	000	255	
VSU	SUS voltage adjustment	0	000	255	
[X]		1		1	1
XD1	D1 trailing-edge pulse of X-SUS	0	000	255	
XD2	D2 trailing-edge pulse of X-SUS	0	000	255	
XU1	U1 leading-edge pulse of X-SUS	0	000	255	
XU2	U2 leading-edge pulse of X-SUS	0	000	255	
Y]	1 = 1.000mily days paids of 7. 000		1 000		<u> </u>
YD1	D1 trailing-edge pulse of Y-SUS	0	000	255	
YD2	D2 trailing-edge pulse of Y-SUS	0	000	255	
YD3	D3 trailing-edge pulse of Y-SUS				
		0	000	255	
YD4	D4 trailing-edge pulse of Y-SUS	0	000	255	

С D Ε 000 255 0 000 255 F 105 PDP-504CMX

В

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U1 leading-edge pulse of Y-SUS

U2 leading-edge pulse of Y-SUS

5

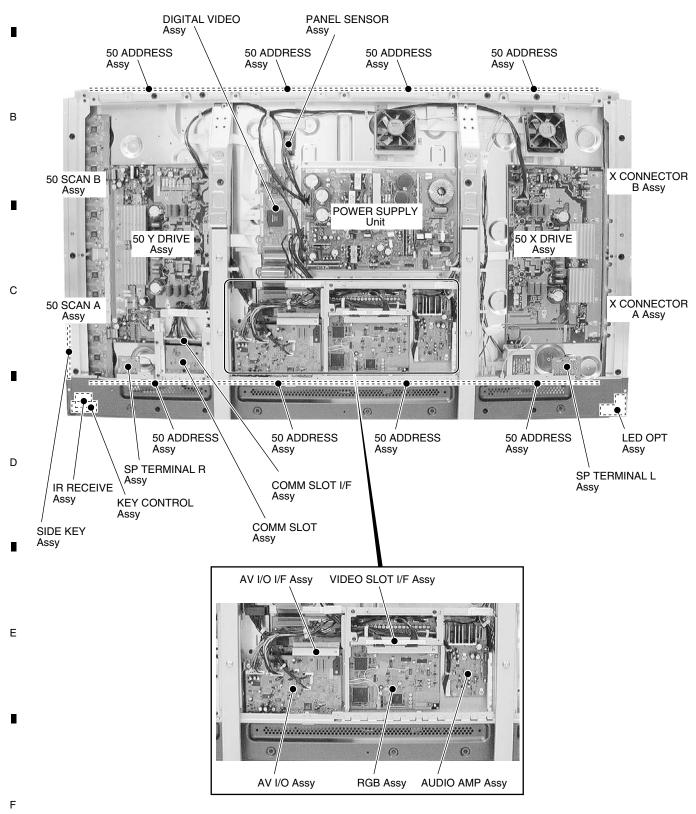
YU1

YU2

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 CONFIGURATION OF THE PC BOARD



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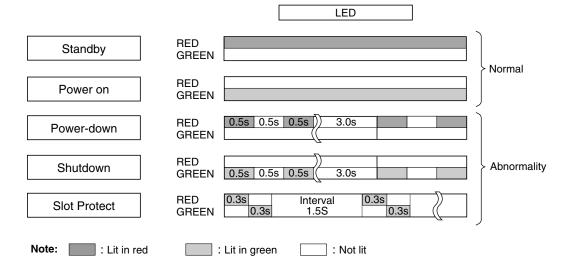
Rear view

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7.1.2 DIAGNOSIS FOR SHUTDOWN AND POWER-DOWN BY LED

• Operation statuses indicated by LEDs



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В

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• Identification of locations having abnormality by the number of times the LEDs flash

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■On Shutdown and power-down

Shutdown

- Operation: When the microcomputer detects any abnormality, it forcibly shuts the unit off.
- LED indication: The LED flashes in green.

Note: The LED flashes regardless of the FRONT INDICATOR setting on the Integrator menu.

Power-down

В

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is shut off.
- LED indication: The LED flashes in red.

Category	STB	ED ON	Conte	nt	Unit's Operation	Warning Message		
	310		-		Shutdown 3 seconds			
		Office	panel-drive IC	andre or trie	after warning	Shutdown by circuit failure (01)		
		Twice			Shutdown 3 seconds after warning	Shutdown by circuit failure (02)		
		3 times	Power decrease of DC-DC converter	of the digital	Immediate shutdown			
		4 times	Panel having high temperature	l	Shutdown 30 seconds after warning	Shutdown by warning temperature rise (04)		
		5 times	Audio failure		Shutdown 3 seconds after warning	Shutdown by warning speaker failure (05)		
		6 times	Communication fa		Shutdown 3 seconds after warning	Shutdown by circuit failure (06)		
SD		7 times	Main 3-wire serial communication in		Shutdown 3 seconds after warning	Shutdown by circuit failure (07)		
		8 times	Communication famain IIC	ailure of the	Shutdown 3 seconds after warning	Shutdown by circuit failure (08)		
		9 times	Communication failure of the		Immediate shutdown			
		10 times			Shutdown 3 seconds after warning	Shutdown by warning fan abnormality (10)		
		11 times			Shutdown 30 seconds after warning	Shutdown by warning temperature rise (11)		
		13 times	Main microcomputer ASIC power supply NG		Immediate shutdown			
		14 times			Shutdown 3 seconds after warning	Shutdown by circuit failure (14)		
		15 times	Other failure	RLS	Shutdown 30 seconds after warning			
				VCC-D1 VCC-D2	Shutdown 3 seconds after warning	Shutdown by circuit failure (15)		
	Once							
	Twice		Power		Immediate power-down			
	3 times		SCAN		Immediate power-down			
	4 times		SCAN-5V		Immediate power-down			
	5 times		Y-DRIVE		Immediate power-down			
	6 times		Y-DCDC		Immediate power-down			
PD	7 times		Y-SUS		Immediate power-down			
}	8 times		ADDRESS X-DRIVE		Immediate power-down Immediate power-down			
ŀ	9 times 10 times		X-DRIVE		Immediate power-down			
}	11 times		X-SUS		Immediate power-down			
	12 times		DIGITAL-DCDC		Immediate power-down			
	15 times		UNKNOWN (Not	identified) *	Immediate power-down			

^{*} If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

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Diagnosis of shutdown

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	Commission failure of the			IC4 Block, Panel Flash Block	IC5401, IC5305	
-	panel-drive IC		Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
	Communication failure of the	DIGITAL VIDEO	Communication failure of the EEPROM (4k) or defective peripheral circuits	Module Ucom Block	105206	
N	module IC (Check the shutdown subcategory on the Factory menu.)	RGB	Communication failure of the EEPROM (2k) or defective peripheral circuits	IC3 Block	IC7102	
			Defective 114-pin FPC	CN400(D15) - CN7101(R10)	ADY1081	Check if the cable is disconnected or not securely connected.
		DIGITAL VIDEO	Defective DC-DC converter	Digital DD Control Block	U5601	Check if 3.3V, 2.5V, and 1.5V are activated (not short-circuited).
က	Power decrease of DIGITAL-DIGITAL VIDEO	DIGITAL VIDEO	Defective RST IC	Panel Flash Block	IC5301,IC5302,IC5303	
	DC-DC	POWER SUPPLY	No startup of 12 V			
_		DIGITAL VIDEO	Disconnection of cable	CN5202 - CN1071		
4	ranel naving nigner temperature		Panel having higher temperature	Surrounding temperature		Temperature detected by a sensor must not exceed 90°C (TEMP1).
			Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
2	Audio failure	AUDIO AMP	Defective AMP IC	Audio Amp	IC5003	
		AUDIO AMP	Disconnection of cable	CN7601(AV1) - CN5001(AP2)		Check if the cable is disconnected or not securely connected.
		DIGITAL VIDEO	Communication failure in the module microcomputer or defective peripheral circuits	Module Ucom Block	105201	Check short/open of the communication line (TXDO/RXDO).
9	Communication failure of the		Failure in writing in the module microcomputer	Module Ucom Block	105201	
	module microcomputer		Defective 114-pin FPC	CN4004(D15) - CN7101(R10)	ADY1081	Check if the cable is disconnected or not securely connected.
		AV I/O	Communication failure in the IF microcomputer or defective peripheral circuits	IF Ucom Block	IC8702	Check short / open of the communication line (TXD_IF/RXD_IF/CK_IF/BUSY_IF/CE_IF)
1	Serial communication failure	RGB	Communication failure in the CELIA or defective peripheral circuits	IC2 Block	IC7004	Check short / open of the communication line (TXD_IC2/RXD_IC2/CLK_IC2/CE_IC2)
`	microcomputer	RGB	Communication failure in the MIKE or defective peripheral circuits	IC3 Block	IC7101	Check short / open of the communication line (TXD_IC3/RXD_IC3/CE_IC3)
		RGB	Failure in writing in the MIKE	IC3 Block	IC7101	
		VIDEO SLOT1 or 2	Failure in MICHAEL Y/C or defective peripheral circuits IC1 (Y/C) Block	IC1 (Y/C) Block	IC6255	
		VIDEO SLOT1 or 2	Failure in MICHAEL CVBS or defective peripheral circuits IC1 (CVBS) Block	IC1 (CVBS) Block	IC6107	
		RGB	Failure in AD MAIN or defective peripheral circuits	Main AD Block	IC6001	
		RGB	Failure in AD SUB or defective peripheral circuits	Sub LPF & AD Block	IC6602	
c	acitorian manor Oll	RGB	Failure in ROZ or defective peripheral circuits	Bus SW1 Block	IC5701	
0		RGB	Failure in ROZ or defective peripheral circuits	Bus SW2 Block	IC5801	
		AV I/O	Failure in VOL IC or defective peripheral circuits	AV I/O Assy	IC7603	
		RGB	Failure in EEPROM or defective peripheral circuits	Main Ucom Block	IC7205	
		VIDEO SLOT1 or 2	Failure in EEPROM or defective peripheral circuits	IC1 (Y/C) Block	IC6257	
			Defective communication line between any of the above devices and the main microcomputer		IC7207	Check short / open of SCL_AV/SDA_AV, SCL_MA/SDA_MA and SCL_EP/SDA_EP

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	SD Circuit in O	peration	SD Circuit in Operation Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
6	Communication failure in	ilure in	RGB	Communication failure in main microcomputer or defective peripheral circuits	Main Ucom Block	IC7207	Check short / open of communication line (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF/REQ_IF)
_	main microcomputer	ter	RGB	Failure in writing in the main microcomputer	Main Ucom Block	IC7207	
5	: : :		FAN	Failure in the fan motor or fan stopped by attached dust			
2	Tall allule		RGB	Disconnection of cable	Relay part between CN7402 (R8) and the wire from the fan		Check if the cable is disconnected or not securely connected.
;	Unit having higher			Use under high temperature	Surrounding/internal		Temperature detected by a sensor must not exceed 65°C (TEMP3) /95°C (TEMP2)
=]	I lemperanie		AUDIO AMP	Disconnection of cable	CN5003(AP3) - CN9702(SP1)		Check if the cable is disconnected or not securely connected.
4	14 Communication failure in IF EEPROM	ilure in IF	AV I/O	Communication failure in EEPROM or defective peripheral circuits	I/F Ucom Block	IC8705	Check short / open of E2P_SCL/E2P_SDA
		BLS	RGB	Disconnection of cable	CN9051(L0) - CN7205(R7)		Check if the cable is disconnected or not securely connected.
15	Other failures	VCC-D1	RGB	Defective circuits in the 12V system			Check for shortcircuits in the 12V system.
		VCC-D2 RGB	RGB	Defective circuits in the 13.5V and 6.5V systems.			Check for shortcircuits in the 13.5V and 6.5V systems.

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• Diagnosis of abnormalities other than shutdown and power-down

Symptoms	Defective Assy	Abnormal Summary	Point to be Checked	Possible Defective Part	Remarks
		Disconnection of cable	CN7404		Check if the connection between the POWER SUPPLY and RGB assemblies is properly made.
No power (LED unlit)	POWER SUPPLY	STB 3.3 V not started	CN7404(AV1)-11 pin		
	AV I/O	Defective IF microcomputer	IF Ucom Block	IC8702	Check if the oscillation is normal (X8701 = 32 kHz, X8702 = 9.8 MHz) and if RESET is set to H (IC8703).
No power (The LED remains lit in red and does not light in green.)	RGB	Defective main microcomputer	Main Ucom Block	IC7207	If communication with the main microcomputer fails approx. 20 seconds after the AC power is on, the main microcomputer may be defective.
Key input not effective		Disconnection of cable	CN4801 - CN9002 CN9001 - CN8702		Check if the cables are not connected or securely connected.
		Disconnection of cable	CN4901 - CN8901		Check if the cable is not connected or securely connected.
Hemote control unit not effective	IR RECEIVE	Defective IR receiver section	R	U4901	Check if a pulse is output when the key corresponding to Pin 3 of the CN4901 is pressed.
Abnormal payon (Data of payon	DIGITAL VIDEO	Defective IC4	IC4 Block	IC5401	Check if an abnormal area in the screen changes when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.
Abnormal screen (base of every other dot are abnormal)	ADDRESS				Check that an abnormal area in the screen does not change when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.
		Defective 114-pin FPC	CN7101 - CN5001	ADY1081	Check if the FPC is broken or not securely connected.

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Note: The figures \bigcirc - \bigcirc indicate the number of times the LED flashes on the panel when power-down occurs in Flashes in a case of power-supply-related power-down Relay control **POWER SUPPLY UNIT** the corresponding route. Protection circuit P2 Б Flashes in a case of than power-supply-r elated power-down power-down other PD_TRIGGER S5201 PS_PD IC5208 PD-MUTE circuit (7) microcomputer IC5201 module PD_MUTE Я (m) (L) (Q) ADR PD (6) (co) DIGITAL VIDEO ASSY DCC_PD XDD_CNV_PD SCAN 5V PD YDD CNV PD XDRIVE_PD DC-DC converter SCAN PD IC5214 IC5215 OR YDRIVE_PD XSUS_PD YSUS PD (2) D5 -D8 D9 -D12 D14 D13 Σ AD1 AD1 × ADDRESS ASSY (lower) **ADDRESS ASSY** X DRIVE ASSY Y DRIVE ASSY (nbber)

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• Power-down diagnosis (defective points)

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$\overline{/}$	PD Circuit in operation	Defective Assy	Reason for Power-down	Point to be Checked	Possible Defective Part	Remarks
-	NONE					
Ν	POWER	POWER SUPPLY Unit				If the elapsed time from relay-on until the LED in the power supply unit lights is about 2-4 seconds, the defective assembly may be the 50 X or Y DRIVE.
		50 X DRIVE Assy	VSUS UVP	X SUS BLOCK	IC1203 - IC1207 (mask module)	
		50 Y DRIVE Assy	VSUS UVP	Y SUS BLOCK	IC2303 - IC2307 (mask module)	
			VH UVP	SCAN IC	SCAN IC	
ო	SCAN	50 SCAN A, B Assy	VH UVP	VH DC/DC	IC2401, IC2402, IC2410, L2401	
		600	Disconnection of cable detected	CN2001, CN2301		
			Disconnection of cable detected	CN2101, CN2102		
4	SCN-5V	50 SCAN A, B Assy or 43 Y DRIVE Assy	ICSV UVP	SCAN IC, IC5V DC/DC Y SUS BLOCK	SCAN IC, Q2401, Q2402, IC2304, IC2309	
			IC5V OVP	IC5V DC/DC	IC2403, IC2411	
2	Y-DRIVE	50 Y DRIVE Assy	+16.5V OCP	Y SUS BLOCK	IC2303 - IC2307 (mask module), IC2301, IC2304, R2309	
			VOFS UVP	VOFS DC/DC	IC2404, IC2412, Q2404, Q2407	
9	Y-DCDC	50 Y DRIVE Assy	VOFS OVP	VOFS DC/DC	IC2404, IC2412	
			VH OVP	VH DC/DC	IC2402, IC2410	
7	Y-SUS	50 Y DRIVE Assy	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	02202, 02214, 02205, 02206, 02208, 02209, 02211, 02212, IC2201, IC2202, Control signal series resistors	
		DIGITAL VIDEO Assy	Power-down caused by detection of middle-point voltage	DIGITAL VIDEO Assy	IC5401, Control signal series resistors	
			Disconnection of cable detected	CN1501		
æ	ADRS	50 ADDRESS Assy	Power-down caused by detection of a power surge	ADR RESONANCE BLOCK	R1631, Q1601, D1602	
			Power-down caused by detection of middle-point voltage	ADR RESONANCE BLOCK	Q1602, C1609, D1606, D1607	
			Disconnection of cable detected	CN1001, CN1201		
6	X-DRIVE	50 X DRIVE Assy	+16.5V OCP	X SUS BLOCK	IC1203, IC1207 (mask module), IC1204, IC1206, R1230	
			VRN OCP	X SUS BLOCK	Q1205, R1226, R1251	
			VRN OVP	VRN DC/DC	IC1403, IC1404	
9	х-рсрс	50 X DRIVE Assy	d/ii Nd/	VRN DC/DC	IC1402, IC1403, IC1404	
				X SUS BLOCK	Q1205, R1226, R1251	
1	11 X-SUS	50 X DRIVE Assy	Power-down caused by detection of middle-point voltage	X RESONANCE BLOCK	Q1102, Q1103, Q1105, Q1106, Q1108, Q1109, Q1111, Q1112, IC1101, IC1102, Control signal series resistors	
		DIGITAL VIDEO Assy	Power-down caused by detection of middle-point voltage	DIGITAL VIDEO Assy	IC5401, Control signal series resistors	OVP : Over Voltage Protection UVP : Under Voltage Protection
12	12 DIG-DCDC	DIGITAL VIDEO Assy	DCDC +3.3V, +1.5V OVP	DC DC CONVERTER BLOCK	U5601 (DC DC CONVERTER Module)	OCP : Over Current Protection

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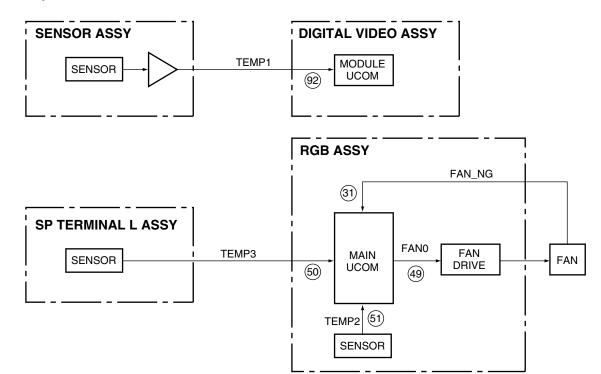
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7.1.3 PROCESSING AT THE TIME OF ABNORMALITIES

Fan and temperature sensor

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Port monitoring specifications

Port Name	Shutdown Name	Assign	Control Microcomputer	Active	Remarks
FAN_NG	FAN	31	Main		Disconnection of the fan connector or abnormality in operation of the fan detected
TEMP1	Unit under high temperature	92		Shutdown when	Monitoring high temperature of the panel, Drive system temperature compensation
TEMP2	Unit under high temperature	51	Main	the set value is exceeded	Monitoring high temperature of boards
TEMP3	Unit under high temperature	50	Main		Monitoring ambient temperature

7.1.4 TEMPERATURE COMPENSATION OF DRIVE SYSTEM VOLTAGE

Function: To control the DRIVE-system voltage according to the temperature (Temperature compensation functions such that the voltage is lowered on the lower-temperature side and the voltage becomes higher on the higher-temperature side.)

Purpose: For improving the yield by compensating for the temperature characteristics of the panel

- Note: Temperature compensation is performed only for the VSUS voltage, and not for the VOFS voltage. This compensation is controlled by the software.
 - Temperature compensation is carried out with the value of TEMP1.

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7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: Only the power for the low voltage lines (16 V, 12 V, and 6.5 V) is on, and the power for the high voltage lines (VSUS, VADR) is off.

Usage: 1. Use when only an operational check for the low voltage lines is required, such as when making repairs.

2. Use when rewriting of a program for each microcomputer is required.

Methods: 1 Set the slide switch (S5201) on the DIGITAL VIDEO Assy to its upper position ("DRF" is mentioned on the board see Fig. below).

- 2. Send the "DRF" RS232C command to turn the large-signal system off.
- 3. Send the "DRN" RS232C command to turn the large-signal system on.

Notes:

- As the unit enters Power-Down and Muting On mode when Methods 1 and 2 are performed, and power-downs other than those caused by the power (PS_PD) and DC-DC-converter (DIGITAL_DC-DC) circuits are not activated.
- If the slide switch is set from OFF to ON while the power is on, a power-down will occur. Be sure to turn the power off before switching the slide switch.
- Although the "DRF" RS232C command is enabled during Standby, if the power is turned on then turned off, the unit will return to "DRN" mode.

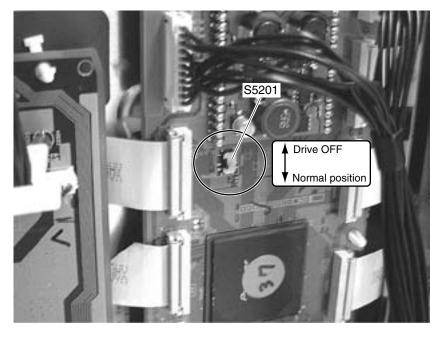


Fig. Drive OFF switch

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7.1.6 BACKUP THE ADJUSTMENT VALUES FOR THE MAIN UNIT

Outline

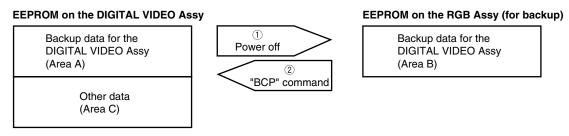
The data on the adjustment values for the main unit are stored in an EEPROM (IC5206, 4 kbits) on the DIGITAL VIDEO Assy. Part of the data (area A in the figure below) are automatically copied to an EEPROM (IC7102, 2 kbits) mounted on the RGB Assy for backup. When the DIGITAL VIDEO Assy is replaced, the backup data on the adjustment values for the main unit stored in the RGB Assy can be copied to the new DIGITAL VIDEO Assy, thus enabling you to omit newly performing adjustments on the main unit. The logs for the product (power-down log, etc.) can also be copied.

Data to be backed up in the digital EEPROM (area A)

- Margin adjustment values (Vsus, Vofset)
- Power upper-limit adjustment value (ABL)
- PANEL white-balance adjustment values
 (PANEL-R HIGH, PANEL-G HIGH, PANEL-B HIGH, PANEL-R LOW, PANEL-G LOW, PANEL-B LOW)
- Drive waveform adjustment values
 (X-SUS-U1, X-SUS-U2, X-SUS-D1, X-SUS-D2, Y-SUS-U1, Y-SUS-U2, Y-SUS-D1, Y-SUS-D2, Y-SUS-D3, Y-SUS-D4)
- Hour meter
 - Pulse meter
 - · Number of times the power has been turned on
 - PD/SD logs

Basic flow of automatic backup

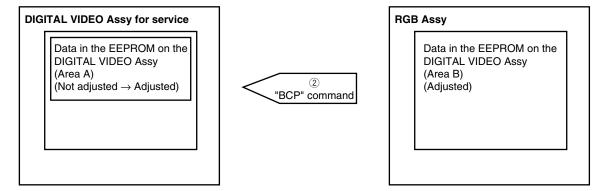
Using a keyword, the data in areas A and B are judged as to whether they have been adjusted or not, then copying is performed.



- ① The keyword on the DIGITAL VIDEO Assy is checked when the power is turned off, and if it is "adjusted", automatic backup is performed.
 - ② If the keyword on the RGB Assy (Area B) is "adjusted," copying can be performed with the "BCP" RS232C command.

Actual automatic backup operations

- 1. When the DIGITAL VIDEO Assy is replaced with an Assy for service
- D Changing of keywords is not required. Replace the DIGITAL VIDEO Assy with an Assy for service, and send the "BCP" RS232C command. Thus, the backup data in the EEPROM on the RGB Assy are copied to the EEPROM on the DIGITAL VIDEO Assy for service.



2. When a repaired DIGITAL VIDEO Assy is mounted on another unit (reuse of the repaired DIGITAL VIDEO Assy)
The keyword of the DIGITAL VIDEO Assy to be reused must be changed to "not adjusted" using the "UAJ" RS232C command.

Note 1: If a repaired DIGITAL VIDEO Assy is mounted in another unit (Unit 2) without this change of keyword, and the power to the unit 2 is turned off, the data in force before the repair of the DIGITAL VIDEO Assy will be copied to Area B of the RGB Assy of Unit 2, overwriting the data necessary for Unit 2. Once overwritten, the original data will not be restored.

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- 3. When a repaired DIGITAL VIDEO Assy is mounted on the original unit (reuse of the repaired DIGITAL VIDEO Assy) Changing of keywords is not required. After the repaired DIGITAL VIDEO Assy is mounted in the original unit, the unit can operate with its latest adjustment values.
- 4. When both the DIGITAL VIDEO Assy and RGB Assy are simultaneously replaced with other assemblies The automatic backup function of this unit will not work properly.
- Note 2: Readjustment of the main unit is required.
- Note 3: After readjustment of the main unit, send the "FAJ" RS232C command to change the keyword of the DIGITAL VIDEO Assy to "adjusted." Thus, when the unit is turned off, automatic backup of adjustment data is performed properly.
- Note 4: If readjustment of the main unit is totally impossible, it can be omitted by installing the EEPROM (IC5206, 4 kbits) originally mounted on the DIGITAL VIDEO Assy for service.
- Note 5: After copying the backup data, turn the power off then back on to reflect the copied backup data.

Miscellaneous

If the white balance (W/B) value is largely shifted because of aging, etc., W/B adjustment is required. (As this may be a rare case, the adjustment procedures are described below, just for your reference.

[W/B-adjustment procedures]

The W/B adjustment can be performed with the RS232C commands. Minolta CA-100 color difference meter are required.

- 1) Send the "FAY" RS232C command to enter Factory mode.
- ② Set the keyword for the DIGITAL VIDEO Assy to "not adjusted" with the "UAJ" RS232C command.
- 3 Obtain the current adjustment values in the two adjustment tables (see "6.6 Command Description").
 - Shifting to Table 1: Send the "M51" and "F60" commands. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "M51" and "F75" commands. Obtaining the adjustment values: Send the "GPW" command.
- 4 For each table, set the brightness.
 - Adjustment in Table 1: After sending the "F60" command, perform adjustment.
 - Adjustment in Table 2: After sending the "F75" command, perform adjustment.

For each table, change the RGB parameters so that the values measured using a Minolta color difference meter (CA-100) become as indicated below. In this case, any one of PRH, PGH, or PBH must be set to 256.

	Cd/mm	"PI
х	285	"P(
V	289	"PI

"PRH***" : 000 - 511 "PGH***" : 000 - 511 "PBH***" : 000 - 511

- 5 Check after adjustment
 - Shifting to Table 1: Send the "F60" command. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "F75" command. Obtaining the adjustment values: Send the "GPW" command. Check that the adjustment data have been changed.
- ⑥ Change the keyword for the DIGITAL VIDEO Assy to "adjusted" by sending the "FAJ" RS232C command.

Note: Use a Minolta CA-100 color difference meter or the equivalent for measurement. Otherwise, the specifications of the product cannot be assured.

- (7) Send the "FAN" RS232C command to enter Normal mode.
 - If the value is different from that you set, readjust it.

Note: To reset the adjustment to its original value, send the "BCP" RS232C command then turn the power off then back on to retrieve the backup data.

• The setting values for color temperature differ between Factory mode and Normal mode. Therefore, the setting value for color-difference signals in Normal mode are different from those in Factory mode, even after the White Balance adjustment has been performed.

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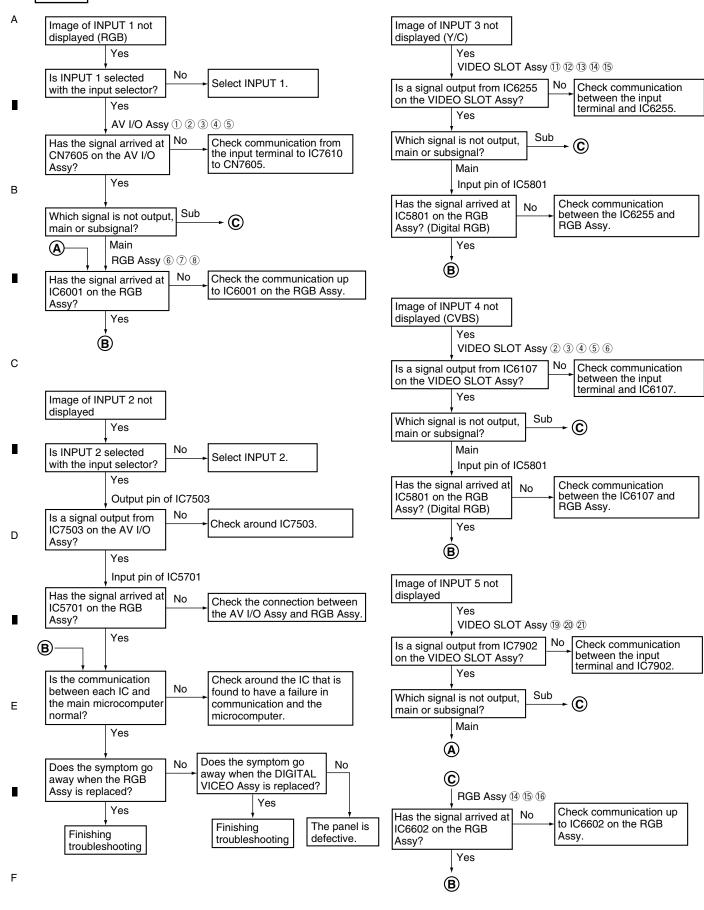
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Grip attachment position

Front case 504 (CMX)

ဒ္ဒ**္ဌ side**

Inner

side

1 Rear Case (50M), Front Case 504 (CMX)

 \bigcirc Remove the grip by removing the four screws.

(2) Remove the six screws.

(3) Remove the seventeen screws.

When reattaching the rear case (50M), first attach the screws for the holes indicated with *1 to place the rear case (50M) in the correct position.

(4) Remove the rear case (50M).

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When reattaching the grip, be sure to securely tighten the screws.

Rear case (50M) (3) 434CMX 504CMX 504CMX 434CMX

(5) Remove the three screws.

(6) Remove the one rivet.

(7) Remove the lead cover (4G).

8 Disconnect the flexible cable.

(9) Remove the front case 504 (CMX).

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If only the front case must be removed, without removing the rear case, perform the steps 5 to 9.

First pull the lower part of the Front case 504 (CMX)out toward you then lift the case up.

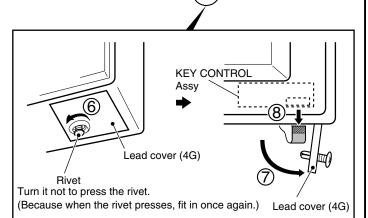
(5) ×3

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Grip attachment position

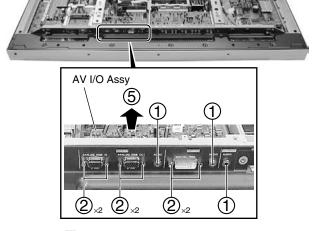


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● Diagnosis of AV I/O Assy

- 1 Remove the three nuts.
- 2 Remove the six hexagonal screws.
- (3) Remove the one screw.
- (4) Remove the one pin grommet.
- (5) Remove the AV I/O Assy with the AV I/O I/F Assy.

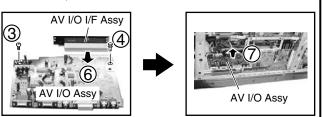




- 6 Remove the AV I/O Assy from the AV I/O I/F Assy.
- (7) Connect the AV I/O Assy to slot of the RGB Assy.

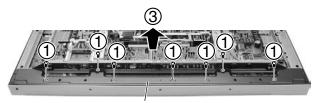


Diagnosis



Removing Multi Base Section

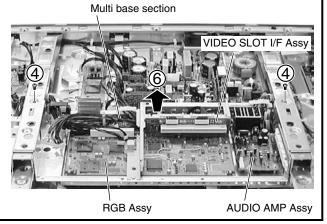
- (1) Remove the seven screws.
- 2 Disconnect the some connectors at need.
- (3) Remove the terminal panel (504CMX).



Terminal panel (504CMX)



- (4) Remove the two screws.
- 5 Disconnect the some connectors at need.
- (6) Remove the multi base section.





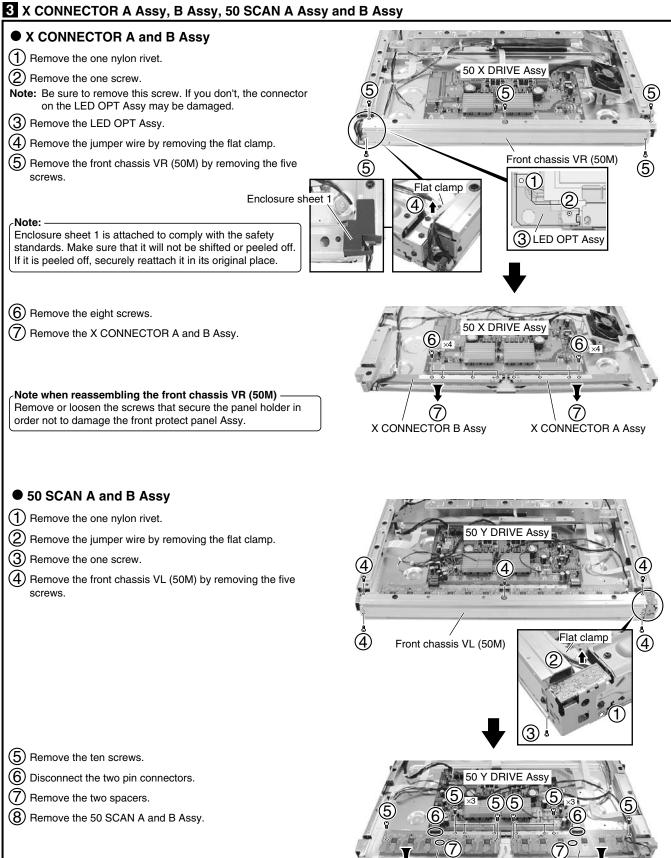
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50 SCAN B Assy

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50 SCAN A Assy

Note when reassembling the front chassis VL (50M)

order not to damage the front protect panel Assy.

Remove or loosen the screws that secure the panel holder in

7.2 IC INFORMATIION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

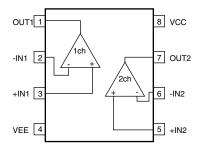
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List of IC

BA10393F, BA10358F, STK795-512, STK795-513, AN16003A, MBM29PL160BD-75PFTN, M30626FHPGP-P, PD5856A, AN5870SB, AD9883AKST-110, SM5301BS, BA7078AF, HY57V643220CT-7, MBM29PL3200BE70PFV, CXA3516R, SII1161BCTG100, HY57V161610DTC-8, LA4625

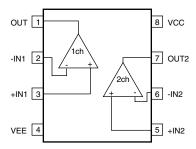
■ BA10393F (50 X DRIVE ASSY : IC1103) (50 Y DRIVE ASSY : IC2211)

- Comparator IC
- Pin Arrangement (Top View) / Block Diagram



■ BA10358F (50 Y DRIVE ASSY : IC2406)

- Ope-Amp. IC
- Pin Arrangement (Top View) / Block Diagram



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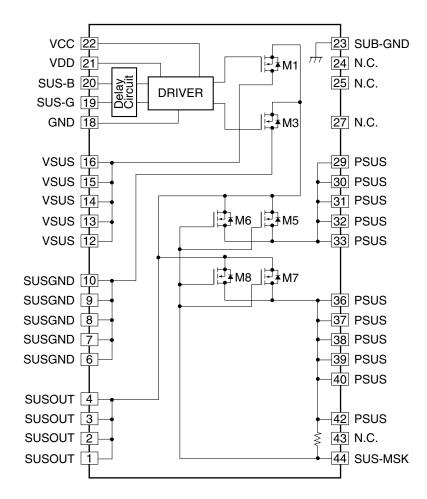
■ STK795-512 (50 X DRIVE ASSY : IC1203, IC1207)

• PDP Mask Module IC

Block Diagram

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PDP-504CMX

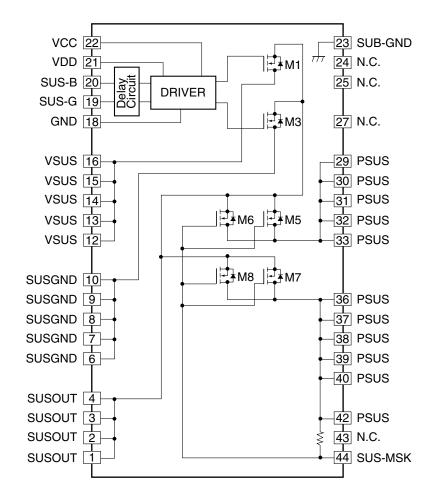
■ STK795-513 (50 Y DRIVE ASSY : IC2303, IC2307)

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• PDP Mask Module IC

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Block Diagram



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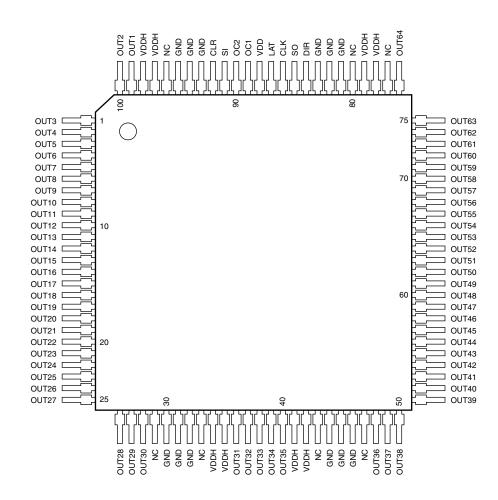
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■ AN16003A (50 SCAN A ASSY : IC3001 - IC3006) (50 SCAN B ASSY : IC3201 - IC3206)

Plasma Display Panel IC

В

Pin Arrangement (Top View)



Pin Function

No.	Pin Name	Туре	Function
1	OUT3		
2	OUT4		
3	OUT5		
4	OUT6		
5	OUT7	0.44	LPsh williams and sufficients to
6	OUT8	Output	High-voltage push-pull output pin
7	OUT9		
8	OUT10		
9	OUT11		
10	OUT12		

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	T			ı
No.	Pin Name	Туре	Function	
11	OUT13			A
12	OUT14			
13	OUT15			
14	OUT16			
15	OUT17			
16	OUT18			
17	OUT19			
18	OUT20			
19	OUT21			
20	OUT22	Output	High-voltage push-pull output pin	
21	OUT23			 E
22	OUT24			
23	OUT25			
24	OUT26			
25	OUT27			
26	OUT28			_
27	OUT29			
	OUT30			
28			Not connected	
29	N.C		Not connected	
30	GND			
31	GND	Ground	Ground pin	c
32	GND			
33	N.C		Not connected	
34	VDDH	Supply	High-voltage circuit supply pin	
35	VDDH		The state of the s	
36	OUT31			
37	OUT32			
38	OUT33	Output	High-voltage push-pull output pin	
39	OUT34			
40	OUT35			
41	VDDH	0 1		
42	VDDH	Supply	High-voltage circuit supply pin	D
43	N.C	_	Not connected	1
44	GND			1
45	GND	Ground	Ground pin	
46	GND			_
47	N.C	_	Not connected	
48	OUT36			
49	OUT37			
50	OUT38			
51	OUT39			
	OUT40			E
52	OUT41			
53		O	High voltage push pull output pin	
54	OUT42	Output	High-voltage push-pull output pin	
55	OUT43			
56	OUT44			
57	OUT45			
58	OUT46			
59	OUT47			
60	OUT48			ı

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No.	Pin Name	Туре	Function
61	OUT49		
62	OUT50]	
63	OUT51]	
64	OUT52		
65	OUT53]	
66	OUT54		
67	OUT55		
68	OUT56]	
69	OUT57	Output	High-voltage push-pull output pin
70	OUT58		
71	OUT59		
72	OUT60		
73	OUT61		
74	OUT62		
75	OUT63		
76	OUT64		
77	N.C		Not connected
78	VDDH	Committee	Litak valla an aivavil avandumin
79	VDDH	Supply	High-voltage circuit supply pin
80	N.C	_	Not connected
81	GND		
82	GND	Ground	Ground pin
83	GND		
84	DIR	Input	Setup pin of sift register sift direction L: Shift into reverse (SO \rightarrow SI) H: Shift forward (SI \rightarrow SO)
85	SO	Input / Output	Serial data input/output pin
86	CLK	Input	Serial clock input pin Fetch SI or SO data to sift register by CLK rise edge
87	LAT	Input	LAT data input pin L: Transfer shft register data to output latch H: Hold data to output latch
88	VDD	Supply	Logic supply pin
89	OC1	land d	Output control pin Oct Oct OUT L L ALL HIZ L H DATA
90	OC2	Input	Control output according to the right truth value table L H DATA
91	SI	Input / Output	Serial data input/output pin
92	CLK	Input	All output reset pin CLK pin: L \rightarrow Normal operation CLK pin: H \rightarrow All output High
93	GND		
94	GND	Ground	Ground pin
95	GND		
96	N.C	_	Not connected
97	VDDH	6 .	
98	VDDH	Supply	High-voltage circuit supply pin
99	OUT1		
100	OUT2	Output	High-voltage push-pull output pin

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Block Diagram

DQ₀ to DQ₁₅ Vcc — Vss ___ Erase Voltage Generator Input/Output Buffers WE-State Control BYTE Command Register Program Voltage Generator Chip Enable STB Data Latch Output Enable Logic CE ŌE -Y-Gating Y-Decoder STB Timer for Program/Erase Low Vcc Detector Address Latch X-Decoder Cell Matrix A_0 to A_{19} **A**-1

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■ M30626FHPGP-P (DIGITAL VIDEO ASSY : IC5201)

• PDP μCOM
• Pin Function

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No.	Pin Name	Function	1/0	ACTIVE
1	VSUS	[D/A] Vofs power control	0	
2	VOFS	[D/A] Vofs power control	0	
3	TXD_IC4	3 serial communication with IC4MANTA - data transmission	0	
4	RXD_IC4	3 serial communication with IC4MANTA - data receive	I	
5	CLK_IC4	3 serial communication with IC4MANTA - clock output	0	
6	BYTE	(GND connection)	I	
7	CNVSS	Pin for processor mode setting (pull-down)	ı	
8	NC	NC pin		
9	NC	NC pin		
10	RST_MD	Reset input	ı	L
11	XOUT	Output for main clock	0	_
12	VSS	GND	_	_
13	XIN	Input for main clock		_
14	VCC1	Power supply = STB3.3V	_	_
15	NMI	(pull-up)	ı	
16	REM_B	(Interruption) Remote control signal input (in the panel unit)	<u> </u>	
17	KEY_B	(Interruption) Key signal input (in the panel unit)	i I	
18	RST2	(Interruption) IC4 reset detection	i	L
19	HD_IN_B	HD signal existence distinction	<u> </u>	L
20	PD_MUTE	Mute the power down output to the POWER SUPPLY Unit	0	<u> </u>
21	PS_PD	PD signal in the POWER SUPPLY Unit		H
22	DCC_PD	PD signal of DC-DC converter	i	H
23	NC	NC pin	ļ.	11
24	NC NC	NC pin		
25	VD_IN	V. frequency count		L
26	EEPRST	EEPROM power SW	0	H
	E_SCL	·	0	П
27		IIC clock output for EEPROM IIC data I/O for EEPROM	1/0	
28	E_SDA			
29	TXD	Communication with flash ROM writer - data transmission	0	
30	RXD	Communication with flash ROM writer - data receive	<u> </u>	
31	SCLK	Communication with flash ROM writer - clock input	<u> </u>	
32	BUSY	Communication with flash ROM writer - busy output	0	
33	TXD0	UART communication with main UCOM (external PC) - data transmission	0	
34	RXD0	UART communication with main UCOM (external PC) - data receive	ı	
35	NC	NC pin		
36	REQ_MD	Communication request to the main UCOM	0	H
37	PSW_D	Mute of DC-DC converter	0	H
38	WE_IC4	In IC4 (MANTA) rewriting, control for communication path switch	0	Н
39	EPM	Setting pin for flash rewriting mode (pull-down)	<u>l</u>	
40	IC4_RST	IC4 forced reset	0	L
41	IC4_CE	Enable for IC4 communication	0	L
42	IC4_BUSY	Busy input for IC4 communication	I	Н
43	REQ_IC4	Communication request from the IC4	I	Н
44	CE	Setting pin for flash rewriting mode (pull-up)	I	
45	PSIZE	Panel size distinction	I	
46	B_SCL	IIC clock output for backup EEPROM	0	Н
47	B_SDA	IIC DATA I/O for backup EEPROM	I/O	Н
48	ADR_PD	PD signal of address junction	I	Н
49	LED_G	Green LED control	0	L
50	LED_R	Red LED control	0	L

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No.	Pin Name	Function	1/0	ACTIVE
51	DRV_OFF	Driving OFF	0	Н
52	RELAY	Power ON control output	0	Н
53	POWER	Power ON control input	I	Н
54	MR_ST_B	MDR connection detection	ı	L
55	OP_DET	Rear case open detection	ı	
56	NC NC	NC pin		
57	PNL_MUTE	Panel mute	1	
58	DITHER	PC/VIDEO dither switch (panel module exclusive use)	Ī	
59	NC	NC pin		
60	VCC2	Power supply = STB 3.3V		
61	PD_TRG	PD detection	1	L
62	VSS	GND	<u>·</u>	+ -
63	VH_PD	Vh power decrease PD		Н
64	YDRV_PD	Y drive PD signal	<u>.</u>	Н
65	YRES_PD	Y drive PD signal	<u>'</u>	H H
66	YDCDC_PD	PD signal of Y drive DC-DC converter	<u>'</u> 	H H
			<u> </u>	
67	IC5V_PD	5V power decrease PD	<u> </u>	H
68	XSUS_PD	X drive PD signal	<u> </u>	H
69	XDCDC_PD	PD signal of X drive DC-DC converter	<u> </u>	H
70	XDRV_PD	X drive PD signal	l	H
71	NC	NC pin		<u> </u>
72	MR_AC	MR power monitor	<u> </u>	H
73	AC_DET	AC power monitor at panel side (same signal as CST1)	I	L
74	DVI_MUTE	Mute of panel link output	0	H
75	A_MUTE	Audio mute	0	Н
76	A_NG	Audio NG detection	ļ	L
77	A_SCL	IIC clock output for audio/others	0	L
78	A_SDA	IIC data I/O for audio/others	I/O	L
79	TRUBASS	TRUBASS ON/OFF	0	Н
80	STB_SW	Standby setting of audio amp.	0	L
81	FOCUS	FOCUS ON/OFF	0	Н
82	SRS	SRS ON/OFF	0	Н
83	DDC_WP	DDCROM write protection	0	Н
84	DVI_DET	DVI cable disconnection detection	I	Н
85	RSTBTMDS	Reset detection of panel link receiver	I	L
86	L_SYNC	DE omission detection of the panel link	I	L
87	NC	NC pin		
88	NC	NC pin		
89	MASK1	[A/D] Mask display setting	I	
90	MAX_PLS2	[A/D] Brightness setting for panel module	I	
91	MAX_PLS1	[A/D] Brightness setting for panel module	I	
92	TEMP	[A/D] AD input for temperature sensor	<u> </u>	
93	MODE	[A/D] Operation mode setting	<u> </u>	
94	AVSS	GND for A/D input		_
95	MODEL	[A/D] CMX/HD/TV/WX distinction		
96	VREF	Reference voltage for A/D input		
97	AVCC	Power supply for A/D input = STB3.3V		+ -
98	NC	NC pin	-	1
99	NC	NC pin		
100	AMG_MD	Address emergency monitor	1	Н
100	AIVIG_IVID	Address emergency monitor	ı	_ п

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■ PD5856A (DIGITAL VIDEO ASSY: IC5401) • PDP ASIC IC4 • Pin Function

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Ball No.	No.	Pin Name	Function
A1	1	BAI_6	A phase signal input of B video (sixth bit)
B1	2	BAI_5	A phase signal input of B video (fifth bit)
C1	3	BAI_4	A phase signal input of B video (fourth bit)
D1	4	NC	NC pin
E1	5	NC	NC pin
F1	6	BAI_3	A phase signal input of B video (fifth bit)
G1	7	BAI_2	A phase signal input of B video (fourth bit)
H1	8	FIELD	FIELD signal input
J1	9	XSUSB_12	X-Drive control signal output
K1	10	XSUSB_10	X-Drive control signal output
L1	11	XSUSB_4	X-Drive control signal output
M1	12	XSUSB_0	X-Drive control signal output
N1	13	XSUSA_10	X-Drive control signal output
P1	14	XSUSA_4	X-Drive control signal output
R1	15	XSUSA_2	X-Drive control signal output
T1	16	ADRS_0	Address control signal output
U1	17	AD6TXOUT3M	Address LVDS signal output
V1	18	AD6TXCLKOUTM	Address LVDS signal output
W1	19	AD6TXOUT2M	Address LVDS signal output
Y1	20	AD6TXOUT1M	Address LVDS signal output
AA1	21	AD6TXOUT0M	Address LVDS signal output
AB1	22	AD7TXOUT3M	Address LVDS signal output
AC1	23	AD7TXCLKOUTM	Address LVDS signal output
AD1	24	AD7TXOUT2M	Address LVDS signal output
AE1	25	AD7TXOUT1M	Address LVDS signal output
AF1	26	AD7TXOUT0M	Address LVDS signal output
AF2	27	AD7TXOUT0P	Address LVDS signal output
AF3	28	VSSLA	GND
AF4	29	AD3TXOUT3M	Address LVDS signal output
AF5	30	AD3TXCLKOUTM	Address LVDS signal output
AF6	31	AD3TXOUT2M	Address LVDS signal output
AF7	32	AD3TXOUT1M	Address LVDS signal output
AF8	33	AD3TXOUT0M	Address LVDS signal output
AF9	34	AD2TXOUT3M	Address LVDS signal output
AF10	35	AD2TXCLKOUTM	Address LVDS signal output
AF11	36	AD2TXOUT2M	Address LVDS signal output
AF12	37	AD2TXOUT1M	Address LVDS signal output
AF13	38	AD2TXOUT0M	Address LVDS signal output
AF14	39	AD1TXOUT3M	Address LVDS signal output
AF15	40	AD1TXCLKOUTM	Address LVDS signal output
AF16	41	AD1TXOUT2M	Address LVDS signal output
AF17	42	AD1TXOUT1M	Address LVDS signal output
AF18	43	AD1TXOUT0M	Address LVDS signal output
AF19	44	AD0TXOUT3M	Address LVDS signal output
AF20	45	AD0TXCLKOUTM	Address LVDS signal output
AF21	46	AD0TXOUT2M	Address LVDS signal output
AF22	47	AD0TXOUT1M	Address LVDS signal output
AF23	48	AD0TXOUT0M	Address LVDS signal output
AF24	49	VSSL15	GND
AF25	50	AD4TXOUT3P	Address LVDS signal output

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Ball No.	No.	Pin Name	Function
AF26	51	AD4TXOUT3M	Address LVDS signal output
AE26	52	AD4TXCLKOUTM	Address LVDS signal output Address LVDS signal output
AD26	53	AD4TXOUT2M	Address LVDS signal output Address LVDS signal output
AC26	53 	AD4TXOUT1M	Address LVDS signal output Address LVDS signal output
AB26	55	AD4TXOUT0M	Address LVDS signal output Address LVDS signal output
AA26	55 	AD5TXOUT3M	Address LVDS signal output Address LVDS signal output
Y26	57	AD5TXCLKOUTM	Address LVDS signal output Address LVDS signal output
W26	58	AD5TXOUT2M	Address LVDS signal output Address LVDS signal output
V26	59	AD5TXOUT1M	Address LVDS signal output Address LVDS signal output
U26	60	AD5TXOUT0M	Address LVDS signal output Address LVDS signal output
T26	61	SDIDBI_N	JTAG signal
R26	62	SDIJTAG	JTAG signal
P26	63	GPIO0_3	Microcomputer macro general-purpose port
N26	64	GPIO0_1	Microcomputer macro general-purpose port
M26	65	YSUSA_4	Y-Drive control signal output
L26	66	YSUSA_10	Y-Drive control signal output
K26	67	YSUSA_14	Y-Drive control signal output
J26	68	YSUSB_4	Y-Drive control signal output
H26	69	YSUSB_6	Y-Drive control signal output
G26	70	YSUSB_10	Y-Drive control signal output
F26	71	YSUSB_14	Y-Drive control signal output
E26	72	NC	NC pin
D26	73	NC	NC pin
C26	74	SCAN_10	Scan control signal output
B26	75	CSIOTXD	Communication with microcomputer
A26	75 76	CSRD_N	Communication with microcomputer Communication with microcomputer
A25	77	CSCS_N0	Communication with microcomputer
A23 A24	78	EXA16	Flash memory address bus
A23	79	EXA15	Flash memory address bus
A23	80	EXA14	Flash memory address bus
A21	81	EXA13	Flash memory address bus
A20	82	EXA12	Flash memory address bus
A20 A19	83	EXA10	Flash memory address bus
A18	84	EXA7	Flash memory address bus
A17	85	EXA1	Flash memory address bus
A17	86	EXDIO_3	Flash memory data bus
A15	87	EXDIO_5	Flash memory data bus
A13	88	EXDIO_11	Flash memory data bus
A14	89	TRNSEND_O	NC pin
A13	90	RBI_5	B phase signal input of R video (fifth bit)
A11	91	RBI_0	B phase signal input of R video (0 bit)
A10	92	GBI_8	B phase signal input of G video (eighth bit)
A10	93	GBI_2	B phase signal input of G video (second bit)
A9 A8	94	BBI_6	B phase signal input of C video (second bit) B phase signal input of B video (sixth bit)
A6 A7	95	BBI_0	B phase signal input of B video (sixtr bit) B phase signal input of B video (0 bit)
A7 A6	96	VDI	VD signal input VD signal input
A5	97	RAI_5	A phase signal input of R video (fifth bit)
A3 A4	98	DCLKI	CLK input
A4 A3	99	GAI_4	A phase signal input of G video (fourth bit)
A3 A2		BAI_9	A phase signal input of G video (lourth bit) A phase signal input of B video (ninth bit)
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101 102 103	BAI_8 BAI_7	A phase signal input of B video (eighth bit)
103	BAI_7	
103		A phase signal input of B video (seventh bit)
101	GND	GND
104	NC	NC
105	NC	NC
106	BAI_1	A phase signal input of B video (first bit)
107	XSUSB_15	X-Drive control signal output
108	GND	GND
109	XSUSB 9	X-Drive control signal output
		X-Drive control signal output
		X-Drive control signal output
		X-Drive control signal output
	GND	GND
	XSUSA 1	X-Drive control signal output
		Test signal input (Not used)
		Address LVDS signal output
		GND
		Address LVDS signal output
		GND
		Address LVDS signal output
	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150	109 XSUSB_9 110 XSUSB_3 111 XSUSA_15 112 XSUSA_9 113 GND 114 XSUSA_1 115 TEST2 116 AD6TXOUT3P 117 AD6TXCLKOUTP 118 AD6TXOUT1P 119 AD6TXOUT0P 120 AD6TXOUT0P 121 AD7TXOUT3P 122 AD7TXCLKOUTP 123 AD7TXOUT1P 125 VSSLA 126 AD3TXOUT3P 127 AD3TXCLKOUTP 128 AD3TXOUT2P 129 AD3TXOUT1P 130 AD3TXOUT0P 131 AD2TXOUT3P 132 AD2TXCLKOUTP 133 AD2TXOUT0P 134 AD2TXOUT0P 135 AD2TXOUT0P 136 AD1TXOUT3P 137 AD1TXCLKOUTP 140 AD1TXOUT0P 141 AD0TXOUT0P 142<

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Ball No.	No.	Pin Name	Function		
AA25					
Y25	151 152	ADSTXOUT3P	Address LVDS signal output		
W25	153	ADSTXCLKOUTP	Address LVDS signal output		
		ADSTXOUT2P	Address LVDS signal output		
V25	154	ADSTXOUT1P	Address LVDS signal output		
U25	155	AD5TXOUT0P	Address LVDS signal output		
T25	156	SDITRST_N	JTAG signal		
R25	157	RESETX	Reset input		
P25	158	GND	GND		
N25	159	GPIO0_0	Microcomputer macro general-purpose port		
M25	160	YSUSA_5	Y-Drive control signal output		
L25	161	YSUSA_11	Y-Drive control signal output		
K25	162	YSUSA_15	Y-Drive control signal output		
J25	163	GND	GND		
H25	164	YSUSB_7	Y-Drive control signal output		
G25	165	YSUSB_11	Y-Drive control signal output		
F25	166	NC	NC pin		
E25	167	NC	NC pin		
D25	168	GND	GND		
C25	169	SCAN_11	Scan control signal output		
B25	170	CSIORXD	Communication with UCOM		
B24	171	CSIOSCKI	Communication with UCOM		
B23	172	UARTTXD	Communication with UCOM		
B22	173	UARTRXD	Communication with UCOM		
B21	174	CSWR_N0	Communication with UCOM		
B20	175	GND	GND		
B19	176	EXA9	Flash memory address bus		
B18	177	EXA6	Flash memory address bus		
B17	178	EXA0	Flash memory address bus		
B16	179	GND	GND		
B15	180	EXDIO 6	Flash memory data bus		
B14	181	EXDIO_12	Flash memory data bus		
B13	182	RBI_9	B phase signal input of R video (ninth bit)		
B12	183	RBI_4	B phase signal input of R video (fourth bit)		
B11	184	GND	GND		
B10	185	GBI_7	B phase signal input of G video (seventh bit)		
B9	186	GBI_1	B phase signal input of G video (first bit)		
B8	187	BBI_5	B phase signal input of B video (fifth bit)		
B7	188	GND	GND		
B6	189	HDI	HD signal input		
B5	190	RAI_4	A phase signal input of R video (fourth bit)		
B4	191	GAI_9	A phase signal input of A video (routh bit) A phase signal input of G video (ninth bit)		
B3	192	GAI_3	A phase signal input of G video (third bit) A phase signal input of G video (third bit)		
C3	193	GAI_2	A phase signal input of G video (triffd bit) A phase signal input of G video (second bit)		
D3	193	VDDD33	3.3V power supply		
E3	194	GAI_1	A phase signal input of G video (first bit)		
			A phase signal input of G video (first bit) A phase signal input of G video (0 bit)		
F3	196	GAI_0			
G3	197	NC	NC pin		
H3	198	XSUSB_14	X-Drive control signal output		
J3	199	VDDIO	3.3V power supply		
K3	200	XSUSB_8	X-Drive control signal output		

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			<u>_</u>
Ball No.	No.	Pin Name	Function
L3	201	XSUSB_2	X-Drive control signal output
М3	202	XSUSA_14	X-Drive control signal output
N3	203	XSUSA_8	X-Drive control signal output
P3	204	VDDIO	3.3V power supply
R3	205	XSUSA_0	X-Drive control signal output
T3	206	TEST1	Test signal input (Not used)
U3	207	VSSLA	GND
V3	208	VSSLA	GND
W3	209	VSSLA	GND
Y3	210	VSSLA	GND
AA3	211	VSSLA	GND
AB3	212	VSSLA	GND
AC3	213	VSSLA	GND
AD3	214	VSSLA	GND
AD4	215	VSSLA	GND
AD5	216	VSSLA	GND
AD6	217	VSSLA	GND
AD7	218	VSSLA	GND
AD8	219	VSSLA	GND
AD9	220	VSSLA	GND
AD10	221	VSSLA	GND
AD11	222	VSSLA	GND
AD12	223	VSSLA	GND
AD13	224	VSSLA	GND
AD14	225	VSSLA	GND
AD15	226	VSSLA	GND
AD16	227	VSSLA	GND
AD17	228	VSSLA	GND
AD18	229	VSSLA	GND
AD19	230	VSSLA	GND
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AD20 231 VSSLA GND AD21 232 VSSLA GND AD22 233 VSSLA GND AD23 234 GND VSSLA AD24 235 VSSLA **GND** AC24 236 VSSLA GND AB24 237 VSSLA GND AA24 GND 238 VSSLA Y24 239 VSSLA GND W24 240 VSSLA GND V24 241 GND VSSLA U24 242 VSSLA GND T24 243 SDITDO JTAG signal R24 244 GPIO0_7 Microcomputer macro general-purpose port P24 245 **VDDIO** 3.3V power supply N24 246 YSUSA_0 Y-Drive control signal output 247 M24 YSUSA_6 Y-Drive control signal output L24 248 YSUSA_12 Y-Drive control signal output K24 249 YSUSB_0 Y-Drive control signal output 3.3V power supply J24 250 VDDD33

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Ball No.	No.	Pin Name	Function
H24		YSUSB_8	
	251		Y-Drive control signal output
G24	252	NC	NC pin
F24	253	YSUSB_15	Y-Drive control signal output
E24	254	SCAN_3	Scan control signal output
D24	255	VDDD33	3.3V power supply
C24	256	SCAN_12	Scan control signal output
C23	257	SCAN_13	Scan control signal output
C22	258	SCAN_14	Scan control signal output
C21	259	SCAN_15	Scan control signal output
C20	260	VDDIO	3.3V power supply
C19	261	EXA8	Flash memory address bus
C18	262	EXA5	Flash memory address bus
C17	263	CLKD	CLK input (60MHz)
C16	264	VDDIO	3.3V power supply
C15	265	EXDIO_7	Flash memory data bus
C14	266	EXDIO_13	Flash memory data bus
C13	267	RBI_8	B phase signal input of R video (eighth bit)
C12	268	RBI_3	B phase signal input of R video (third bit)
C11	269	VDDIO	3.3V power supply
C10	270	GBI_6	B phase signal input of G video (sixth bit)
C9	271	GBI_0	B phase signal input of G video (0 bit)
C8	272	BBI_4	B phase signal input of B video (fourth bit)
C7	273	VDDIO	3.3V power supply
C6	274	RAI_9	A phase signal input of R video (ninth bit)
C5	275	RAI_3	A phase signal input of R video (third bit)
C4	276	GAI_8	A phase signal input of G video (eighth bit)
D4	277	GAI_7	A phase signal input of G video (seventh bit)
E4	278	GAI_6	A phase signal input of G video (sixth bit)
F4	279	GAI_5	A phase signal input of G video (fifth bit)
G4	280	VCMP	GND
H4	281	XSUSB_13	X-Drive control signal output
J4	282	XSUSB_11	X-Drive control signal output
K4	283	XSUSB_7	X-Drive control signal output
L4	284	XSUSB_1	X-Drive control signal output
M4	285	XSUSA_13	X-Drive control signal output
N4	286	XSUSA_7	X-Drive control signal output
P4	287	XSUSA_3	X-Drive control signal output
R4	288	ADRS_3	Address control signal output
T4	289	TESTAN	Test signal input (Not used)
U4	290	VDDLA	3.3V power supply
V4	291	VDDLA	3.3V power supply
W4	292	VDDLA	3.3V power supply
Y4	293	VDDLA	3.3V power supply
AA4	294	VDDLA	3.3V power supply
AB4	295	VDDLA	3.3V power supply
AC4	296	VDDLA	3.3V power supply
AC5	297	VDDLA	3.3V power supply
AC6	298	VDDLA	3.3V power supply
AC7	299	VDDLA	3.3V power supply
AC8	300	VDDLA	3.3V power supply

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Ball No.	No.	Pin Name	Function
AC8	300	VDDLA	3.3V power supply
AC9	301	VDDLA	3.3V power supply
AC10	302	VDDLA	3.3V power supply
AC11	303	VDDLA	3.3V power supply
AC12	304	VDDLA	3.3V power supply
AC13	305	VDDLA	3.3V power supply
AC14	306	VDDBG	3.3V power supply
AC15	307	VDDLA	3.3V power supply
AC16	308	VDDLA	3.3V power supply
AC17	309	VDDLA	3.3V power supply
AC18	310	VDDLA	3.3V power supply
AC19	311	VDDLA	3.3V power supply
AC20	312	VDDLA	3.3V power supply
AC21	313	VDDLA	3.3V power supply
AC22	314	VDDLA	3.3V power supply
AC23	314	VDDLA	3.3V power supply 3.3V power supply
AB23	316	VDDLA	3.3V power supplyv
AA23	317	VDDLA	3.3V power supply 3.3V power supply
Y23		VDDLA	3.3V power supply 3.3V power supply
	318		
W23	319	VDDLA	3.3V power supply
V23	320	VDDLA	3.3V power supply
U23	321	VDDLA	3.3V power supply
T23	322	SDITDI	JTAG signal
R23	323	GPIO0_6	Microcomputer macro general-purpose port
P23	324	GPIO0_2	Microcomputer macro general-purpose port
N23	325	YSUSA_1	Y-Drive control signal output
M23 L23	326	YSUSA_7	Y-Drive control signal output
	327	YSUSA_13	Y-Drive control signal output
K23	328	YSUSB_1	Y-Drive control signal output
J23	329	YSUSB_5	Y-Drive control signal output
H23	330	YSUSB_9	Y-Drive control signal output
G23	331	VCMP	GND
F23	332	SCAN_0	Scan control signal output
E23	333	SCAN_4	Scan control signal output
D23	334	SCAN_7	Scan control signal output
D22	335	SCAN_8	Scan control signal output
D21	336	SCAN_9	Scan control signal output
D20	337	EXA11	Flash memory address bus
D19	338	EXA19	Flash memory address bus
D18	339	EXA4	Flash memory address bus
D17	340	EXDIO_0	Flash memory data bus
D16	341	EXDIO_4	Flash memory data bus
D15	342	EXDIO_8	Flash memory data bus
D14	343	EXDIO_14	Flash memory data bus
D13	344	RBI_7	B phase signal input of R video (seventh bit)
D12	345	RBI_2	B phase signal input of R video (second bit)
D11	346	GBI_9	B phase signal input of G video (ninth bit)
D10	347	GBI_5	B phase signal input of G video (fifth bit)
D9	348	BBI_9	B phase signal input of B video (ninth bit)
D8	349	BBI_3	B phase signal input of B video (tenth bit)

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Ball No.	No.	Pin Name	Function
Dan No.	350	DEI	DE signal input
D6	351		
	351	RAI_8	A phase signal input of R video (eighth bit)
D5		RAI_2	A phase signal input of R video (second bit)
E5	353	RAI_1	A phase signal input of R video (first bit)
F5	354	RAI_0	A phase signal input of R video (0 bit)
G5	355	BAI_0	A phase signal input of B video (0 bit)
H5	356	VSS15	GND
J5	357	VDDHR	3.3V power supply
K5	358	XSUSB_6	X-Drive control signal output
L5	359	VSSD15	GND
M5	360	XSUSA_12	X-Drive control signal output
N5	361	XSUSA_6	X-Drive control signal output
P5	362	VSS15	GND
R5	363	ADRS_2	Address control signal output
T5	364	TESTBN	Test signal input (Not used)
U5	365	VSSL15	GND
V5	366	VSSLA	GND
W5	367	VSSLA	GND
Y5	368	VSSL15	GND
AA5	369	VDDLP	3.3V power supply
AB5	370	VSSL15	GND
AB6	371	VSSLA	GND
AB7	372	VSSLA	GND
AB8	373	VSSL15	GND
AB9	374	VSSLA	GND
AB10	375	VSSLA	GND
AB11	376	VSSL15	GND
AB12	377	VSSLA	GND
AB13	378	VSSLA	GND
AB14	379	REFRIN	Reference current generation
AB15	380	VSSBG	GND
AB16	381	VSSL15	GND
AB17	382	VSSLA	GND
AB18	383	VSSLA	GND
AB19	384	VSSL15	GND
AB20	385	VSSLA	GND
AB21	386	VSSLA	GND
AB22	387	VSSLA	GND
AA22	388	VDDLA	3.3V power supply
Y22	389	VSSL15	GND
W22	390	VSSLA	GND
V22	391	VSSLA	GND
U22	392	VSSL15	GND
T22	393	SDITMS	JTAG signal
R22	394	GPIO0_5	Microcomputer macro general-purpose port
P22	395	VSS15	GND
N22	396	YSUSA_2	Y-Drive control signal output
M22	397	YSUSA_8	Y-Drive control signal output
L22		VSSD15	GND
	398		
K22	399	YSUSB_2	Y-Drive control signal output

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Ball No.	No.	Pin Name	Function
J22	400	VDDHL	3.3V power supply
H22	401	VSSD15	GND
G22	402	YSUSB_12	Y-Drive control signal output
F22	403	SCAN_1	Scan control signal output
E22	404	SCAN_5	Scan control signal output
E21	405	SCAN_6	Scan control signal output
E20	406	VSS15	GND
E19	407	EXA18	Flash memory address bus
E18	408	EXA3	Flash memory address bus
E17	409	EXDIO_1	Flash memory data bus
E16	410	VSS15	GND
E15	411	EXDIO_9	Flash memory data bus
E14	412	EXDIO_15	Flash memory data bus
E13	413	RBI_6	B phase signal input of R video (sixth bit)
E12	414	CLKS	CLK input (85MHz)
E11	415	VSS15	GND
E10	416	GBI_4	B phase signal input of G video (fourth bit)
E8	418	BBI_2	B phase signal input of B video (second bit)
E9	417	BBI_8	B phase signal input of B video (eighth bit)
E7	419	VSS15	GND
E6	420	RAI_7	A phase signal input of R video (seventh bit)
F6	421	RAI_6	A phase signal input of R video (sixth bit)
G6	422	APL_DT	APL value trigger input
H6	423	VDD15	1.5V power supply
J6	424	VBB	VBB power monitor in the DRAM
K6	425	XSUSB_5	X-Drive control signal output
L6	426	VDDD15	1.5V power supply
M6	427	XSUSA_11	X-Drive control signal output
N6	428	XSUSA_5	X-Drive control signal output
P6	429	VDD15	1.5V power supply
R6	430	ADRS_1	Address control signal output
T6	431	TESTCN	Test signal input (Not used)
U6	432	VDDL15	1.5V power supply
V6	433	VDDLA	3.3V power supply
W6	434	VDDLA	3.3V power supply
Y6	435	VDDL15	1.5V power supply
AA6	436	VDDLA	3.3V power supply
AA7	437	VDDLA	3.3V power supply
AA8	438	VDDL15	1.5V power supply
AA9	439	VDDLA	3.3V power supply
AA10	440	VDDLA	3.3V power supply
AA11	441	VDDL15	1.5V power supply
AA12	442	VDDLA	3.3V power supply
AA13	443	VDDLA	3.3V power supply
AA14	444	VDDLA	3.3V power supply
AA15	445	VDDLA	3.3V power supply
AA16	446	VDDL15	1.5V power supply
AA17	447	VDDLA	3.3V power supply
AA18	448	VDDLA	3.3V power supply
			0.0. points supply

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Ball No.	No.	Pin Name	Function
AA20	450	VDDLA	3.3V power supply
AA21	451	VDDLA	3.3V power supply
Y21	452	VDDL15	1.5V power supply
W21	453	VDDLA	3.3V power supply
V21	454	VDDLA	3.3V power supply
U21	455	VDDL15	1.5V power supply
T21	456	SDITCK	JTAG signal
R21	457	GPIO0_4	Microcomputer macro general-purpose port
P21	458	VDD15	1.5V power supply
N21	459	YSUSA_3	Y-Drive control signal output
M21	460	YSUSA_9	Y-Drive control signal output
L21	461	VDDD15	1.5V power supply
K21	462	YSUSB_3	Y-Drive control signal output
J21	463	VBB	VBB power monitor in the DRAM
H21	464	VDDD15	1.5V power supply
G21	465	YSUSB_13	Y-Drive control signal output
F21	466	SCAN_2	Scan control signal output
F20	467	VDD15	1.5V power supply
F19	468	EXA17	Flash memory address bus
F18	469	EXA2	Flash memory address bus
F17	470	EXDIO_2	Flash memory data bus
F16	471	VDD15	1.5V power supply
F15	472	EXDIO_10	Flash memory data bus
F14	473	TRNSEND_I	NC pin
F13	474	VDD15	1.5V power supply
F12	475	RBI_1	B phase signal input of R video (first bit)
F11	476	VDD15	1.5V power supply
F10	477	GBI_3	B phase signal input of G video (third bit)
F9	478	BBI_7	B phase signal input of B video (seventh bit)
F8	479	BBI_1	B phase signal input of B video (first bit)
F7	480	VDD15	1.5V power supply

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■ AN5870SB (RGB ASSY : IC6402)

(AV I/O ASSY: IC7610, IC7613) (VIDEO SLOT1 ASSY: IC7902) (VIDEO SLOT2 ASSY: IC7902)

• Wide Band Analog SW

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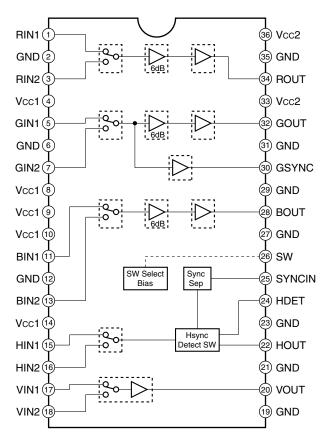
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Pin Arrangement / Block Diagram



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Pin Function

No.	Name	Function	No.	Name	Function
1	RIN1	R input 1	19	GND	Ground (HV, HSEP, SW)
2	GND	Ground (R)	20	VOUT	V output
3	RIN2	R input 2	21	GND	Ground
4	Vcc1	5V (GSYNC)	22	HOUT	H output
5	GIN1	G input 1	23	GND	Ground
6	GND	Ground (G)	24	HDET	H detect
7	GIN2	G input 2	25	SYNCIN	Sync input
8	Vcc1	5V (R)	26	SW	SW
9	Vcc1	5V (G)	27	GND	Ground
10	Vcc1	5V (B)	28	BOUT	B output
11	BIN1	B input 1	29	GND	Ground (RGB)
12	GND	Ground (B)	30	GSYNC	GSync output
13	BIN2	B input 2	31	GND	Ground (RGB)
14	Vcc1	5V (HV, HSEP, SW)	32	GOUT	G output
15	HIN1	H input 1	33	Vcc2	12V (RGB)
16	HIN2	H input 2	34	ROUT	R output
17	VIN1	V input 1	35	GND	Ground
18	VIN2	V input 2	36	Vcc2	12V (RGB)

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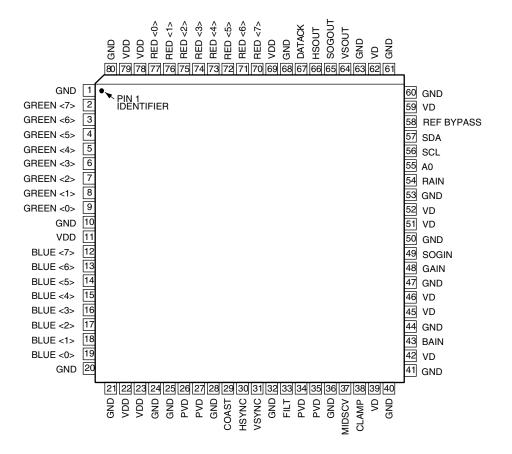
PDP-504CMX

■ AD9883AKST-110 (RGB ASSY : IC6602)

• 110 MSPS Analog Interface

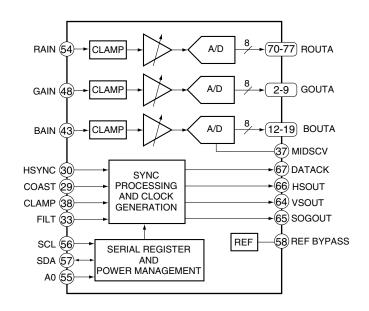
Pin Arrangement (Top View)

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Block Diagram

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PDP-504CMX

• Pin Function

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No.	Pin Name	I/O	Pin Function
1	GND	-	Ground
2	GREEN 7	0	Converter Green output (MSB)
3	GREEN 6	0	Converter Green output
4	GREEN 5	0	Converter Green output
5	GREEN 4	0	Converter Green output
6	GREEN 3	0	Converter Green output
7	GREEN 2	0	Converter Green output
8	GREEN 1	0	Converter Green output
9	GREEN 0	0	Converter Green output
10	GND	_	Ground
11	VDD	_	Power supply (3.3V)
12	BLUE 7	0	Converter Blue output (MSB)
13	BLUE 6	0	Converter Blue output
14	BLUE 5	0	Converter Blue output
15	BLUE 4	0	Converter Blue output
16	BLUE 3	0	Converter Blue output
17	BLUE 2	0	Converter Blue output
18	BLUE 1	0	Converter Blue output
19	BLUE 0	0	Converter Blue output
20	GND	_	Ground
21	GND	_	Ground
22	VDD	_	Power supply (3.3V)
23	VDD	_	Power supply (3.3V)
24	GND	-	Ground
25	GND	_	Ground
26	PVD	_	PLL power supply (3.3V)
27	PVD	_	PLL power supply (3.3V)
28	GND	_	Ground
29	COAST	I	PLL COAST signal input
30	HSYNC	I	Horizontal sync. input
31	VSYNC	I	Vertical sync. input
32	GND	_	Ground
33	FILT	_	External filter connection pin for built-in PLL
34	PVD	_	PLL power supply (3.3V)
35	PVD	_	PLL power supply (3.3V)
36	GND	_	Ground
37	MIDSCV	_	Internal middle scale voltage bias
38	CLAMP	I	Clamp input (External clamp signal)
39	VD	_	Analog power supply (3.3V)
40	GND	_	Ground
41	GND	_	Ground
42	VD	_	Analog power supply (3.3V)
43	BAIN	I	Analog input for converter B
44	GND	_	Ground
45	VD		Analog power supply (3.3V)

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No.	Pin Name	I/O	Pin Function					
46	VD	-	Analog power supply (3.3V)					
47	GND	_	Ground					
48	GAIN	I	Analog input for converter G					
49	SOGIN	ı	Input for Sync-on Green					
50	GND	_	Ground					
51	VD	_	Analog power supply (3.3V)					
52	VD	_	Analog power supply (3.3V)					
53	GND	_	Ground					
54	RAIN	1	Analog input for converter R					
55	A0	1	Address input 1 of serial port					
56	SCL	1	Data clock (max. 100kHz) of serial port					
57	SDA	I/O	Data input/output of serial port					
58	REF BYPASS	_	Internal reference bypass					
59	VD	_	Analog power supply (3.3V)					
60	GND	_	Ground					
61	GND	_	Ground					
62	VD	_	Analog power supply (3.3V)					
63	GND	_	Ground					
64	VSOUT	0	VSYNC output (phasing with DATACLK)					
65	SOGOUT	0	Sync-on-Green slicer output					
66	HSOUT	0	HSYNC output (phasing with DATACLK)					
67	DATACLK	0	Data input/output clock					
68	GND	_	Ground					
69	VDD	_	Power supply (3.3V)					
70	RED 7	0	Converter Red output (MSB)					
71	RED 6	0	Converter Red output					
72	RED 5	0	Converter Red output					
73	RED 4	0	Converter Red output					
74	RED 3	0	Converter Red output					
75	RED 2	0	Converter Red output					
76	RED 1	0	Converter Red output					
77	RED 0	0	Converter Red output					
78	VDD	_	Power supply (3.3V)					
79	VDD	_	Power supply (3.3V)					
80	GND	_	Ground					

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■ SM5301BS (RGB ASSY : IC6601)

• Video Filter

Block Diagram

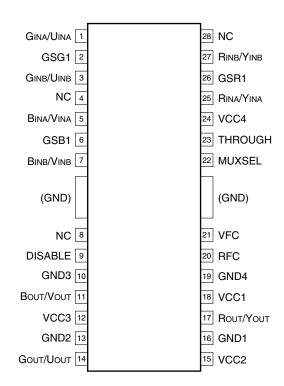
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VCC1 VCC2 VCC3 VCC4 -(12)-DISABLE (9) Buffer RINA/YINA 25 (17) **R**OUT/**Y**OUT MUX RINB/YINB 27 26) GSR1 Buffer GOUT/UOUT GINA/UINA (1 GINB/UINB (3) 2) GSG1 BINA/VINA 5 11) Bout/Vout MUX BINB/VINB (7) GSB1 MUXSEL (22) IFC CONT 23) THROUGH RFC 20 13 10 VFC GND1 GND2 GND3 GND4

• Pin Arrangement (Top View)

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• Pin Function

No.	Pin Name	I/O	Pin Function			
1	Gina/Uina	ı	Analog GINA or UINA signal input. Sync signal is input on SYNCIN pin.			
2	GSG1	I	GOUT/UOUT output buffer gain set input			
3	GINB/UINB	ı	Analog GINB or UINB signal input. Sync signal is input on SYNCIN pin.			
4	(NC)	_	No connection			
5	BINA/VINA	1	Analog BINA or VINA signal input. Sync signal is input on SYNCIN pin.			
6	GSB1	ı	BOUT/VOUT output buffer gain set input			
7	BINB/VINB	ı	Analog BINB or VINB signal input. Sync signal is input on SYNCIN pin.			
8	(NC)	_	No connection			
9	DISABLE	I	Power save function. Built-in pull-down resistor. L: Enable H: Disable (Output pins: ROUT/YOUT, GOUT/UOUT, and BOUT/VOUT are high impedance.)			
10	GND3	_	Analog ground			
11	Воит/Vouт	0	B/V signal output			
12	VCC3	_	Analog 5V supply			
13	GND2	_	Analog ground			
14	Gouт/Uouт	0	G/U signal output			
15	VCC2	_	Analog 5V supply			
16	GND1	_	Analog ground			
17	Rоит/Yоит	0	R/Y signal output			
18	VCC1	-	Analog 5V supply			
19	GND4	_	Analog ground			
20	RFC	_	LPF (lowpass filter) cutoff frequency setting resistor connection			
21	VFC	I	LPF (lowpass filter) cutoff frequency setting voltage input			
22	MUXSEL	1	Input select signal. Built-in pull-down resistor. L: XINA pin select H: XINB pin select			
23	THROUGH	I	Filter through Built-in pull-down resistor. L: Filter function H: Filter through (buffer only)			
24	VCC4	_	Analog 5V supply			
25	RINA/YINA	ı	Analog RINA or YINA signal input. Sync signal is input on SYNCIN pin.			
26	GSR1	I	ROUT/YOUT output buffer gain set input			
27	RINB/YINB	ı	Analog RINB or YINB signal input. Sync signal is input on SYNCIN pin.			
28	(NC)	_	No connection			

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■ BA7078AF (RGB ASSY : IC6604)

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• Synchonous seperation IC

Block Diagram

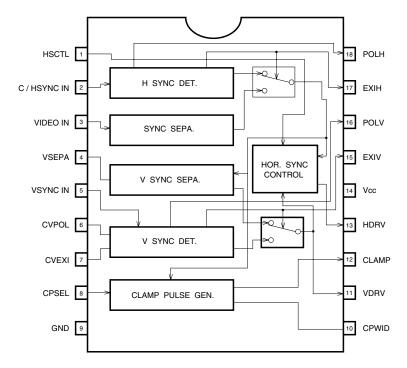
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• Pin Function

No.	Pin Name	Pin Function						
1	HSCTL	HDRV output Used to select whether to output the VDRV section of the HDRV output signal. High: VDRV section of HDRV is output Low: VDRV section of HDRV is not output						
2	C/HSYNC IN	Composite sync / H SYNC input Input Input either the composite synchronization signal. Input either the composite synchronization signal or the horizontal synchronization signal. Input is clamped, and is initiated by capacitor coupling.						
3	VIDEO IN	SYNC ON VIDEO input Inputs the SYNC ON VIDEO signal(green). Input is sink chip clamped. Input is initiated by capacitor coupling.						
4	VSEPA	f-V conversion Converts the horizontal synchronization signal frequency into a voltage. The voltage generated is proportional to the frequency of the horizontal synchronization signal. Attach a 0.56 μF capacitor between the ground pins.						
5	VSYNC IN	V SYNC input Inputs the vertical synchronization signal.						
6	CVPOL	Vertical polarity integration Integrates the vertical synchronization signal polarity detection circuit. Attach a 1.5 μ F capacitor between this pin and the ground.						
7	CVEXI	Vertical existence integration Integrates the vertical synchronization signal existence detection circuit. Attach a 1 µF capacitor between this pin and the ground.						
8	CPSEL	Setting the clamp position Used to set the clamp pulse generation position to either the front or back edge of HSYNC High: The front edge is the generation position Open: Composite / H SYNC IN: The front edge is the generation position VIDEO IN: The back edge is the generation position Low: The back edge is the generation position						
9	GND	Ground						
10	CPWID	Setting the clamp pulse width Sets the clamp pulse width according to the attached time constant. Attach a resistor between this pin and VCC and, a capacitor between this pin and GND. When $R = 3.9 k\Omega$ and $C = 100 pF$, pulse width is approximately 400 ns. Set the resistor to register an abnormality at $1 k\Omega$.						
11	VDRV	VDRV output Outputs the vertical synchronization signal. The output signal has positive polarity.						
12	CLAMP	Clamp output Outputs the clamp pulse generated from the vertical synchronization signal. The output signal has a positive polarity.						
13	HDRV	HDRV output Outputs the clamp pulse generated from the horizontal synchronization signal. The output signal has positive polarity.						
14	Vcc	Power supply						
15	EXIV	Vertical existence output Indecates whether the vertical synchronization signal exists.						
16	POLV	Vertical polarity output Indicates the polarity of the vertical synchronization signal.						
17	EXIH	Horizontal existence output Indicates whether the horizontal synchronization signal exists.						
18	POLH	Horizontal polarity output Indicates the polarity of the horizontal synchronization signal.						

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■ HY57V643220CT-7 (RGB ASSY : IC7001, IC7002)

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• Synchronous DRAM

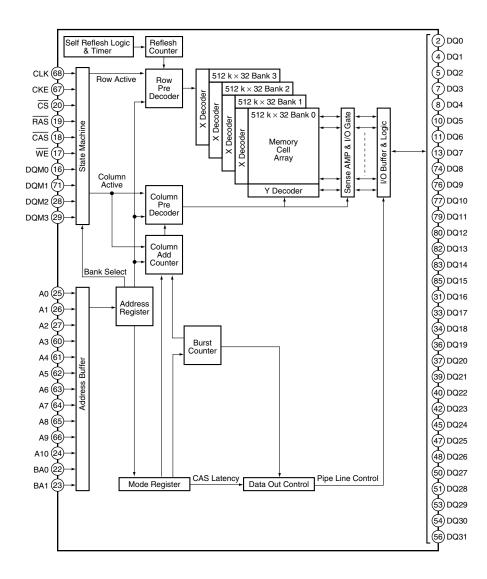
Block Diagram

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PDP-504CMX

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• Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VDD	_	Power supply	44	VSS	_	Ground
2	DQ0	I/O	Data input/output	45	DQ24	I/O	Data input/output
3	VDDQ	_	Power supply for output buffer	46	VSSQ	_	Ground for output buffer
4	DQ1	I/O	Data input/output	47	DQ25	I/O	Data input/output
5	DQ2	I/O	Data input/output	48	DQ26	I/O	Data input/output
6	VSSQ	_	Ground for output buffer	49	VDDQ	_	Power supply for output buffer
7	DQ3	I/O	Data input/output	50	DQ27	I/O	Data input/output
8	DQ4	I/O	Data input/output	51	DQ28	I/O	Data input/output
9	VDDQ	_	Power supply for output buffer	52	VSSQ	_	Ground for output buffer
10	DQ5	I/O	Data input/output	53	DQ29	I/O	Data input/output
11	DQ6	I/O	Data input/output	54	DQ30	I/O	Data input/output
12	VSSQ	_	Ground for output buffer	55	VDDQ	_	Power supply for output buffer
13	DQ7	I/O	Data input/output	56	DQ31	I/O	Data input/output
14	NC	_	No connection	57	NC	-	No connection
15	VDD	_	Power supply	58	VSS	_	Ground
16	DQM0	ı	Data input/output mask	59	DQM3	ı	Data input/output mask
17	/WE	ı	Write enable	60	A3	ı	Address input
18	/CAS	ı	Column address strobe	61	A4	ı	Address input
19	/RAS	I	Row address strobe	62	A5	I	Address input
20	/CS	ı	Chip select input	63	A6	ı	Address input
21	NC	_	No connection	64	A7	ı	Address input
22	BA0	ı	Bank address input	65	A8	I	Address input
23	BA1	ı	Bank address input	66	A9	ı	Address input
24	A10/AP	ı	Address input	67	CKE	I	Clock enable
25	A0	I	Address input	68	CLK	I	System clock input
26	A1	ı	Address input	69	NC	_	No connection
27	A2	ı	Address input	70	NC	_	No connection
28	DQM2	I	Data input/output mask	71	DQM1	I	Data input/output mask
29	VDD	_	Power supply	72	VSS	_	Ground
30	NC	_	No connection	73	NC	_	No connection
31	DQ16	I/O	Data input/output	74	DQ8	I/O	Data input/output
32	VSSQ	_	Ground for output buffer	75	VDDQ	_	Power supply for output buffer
33	DQ17	I/O	Data input/output	76	DQ9	I/O	Data input/output
34	DQ18	I/O	Data input/output	77	DQ10	I/O	Data input/output
35	VDDQ	_	Power supply for output buffer		VSSQ	_	Ground for output buffer
36	DQ19	I/O	Data input/output	79	DQ11	I/O	Data input/output
37	DQ20	I/O	Data input/output	80	DQ12	I/O	Data input/output
38	VSSQ	_	Ground for output buffer	81	VDDQ	_	Power supply for output buffer
39	DQ21	I/O	Data input/output		DQ13	I/O	Data input/output
40	DQ22	I/O	Data input/output	83	DQ14	I/O	Data input/output
41	VDDQ	_	Power supply for output buffer	84	VSSQ	_	Ground for output buffer
42	DQ23	I/O	Data input/output	85	DQ15	I/O	Data input/output
43	VDD	_	Power supply	86	VSS	_	Ground

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PDP-504CMX 7

■ MBM29PL3200BE70PFV (RGB ASSY : IC7152)

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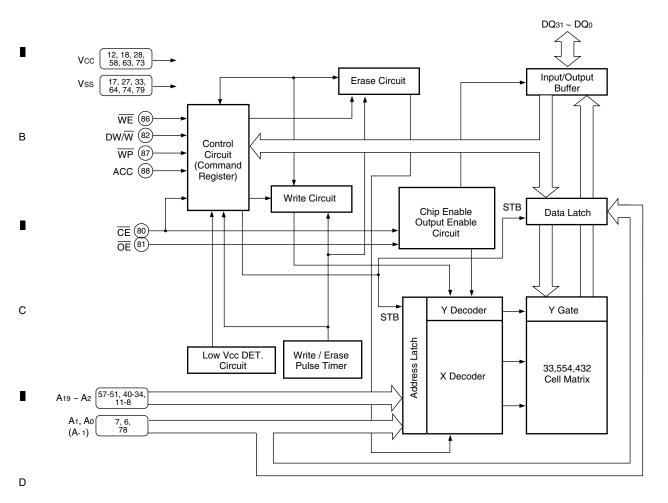
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• Page Mode Flash Memory

Block Diagram

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Pin Function

No.	Pin Name	I/O	Pin Function
57-51, 40-34, 11-6, 78	A19 - A0, A-1	I	Address input
78-75, 72-65, 62-59, 32-19, 26-19, 16-13	DQ31 - DQ0	I/O	Data input/output
80	CE	I	Chip enable
81	OE	ı	Output enable
86	WE	ı	Write enable
82	DW/W	ı	16 bit, 32 bit mode switch
87	WP	ı	Write protect
88	ACC	ı	Acceleration
17, 27, 33, 64, 74, 79	Vss	_	Ground
12, 18, 28, 58, 63, 73	Vcc	-	Power supply
1-5, 41-50, 83-85, 89, 90	1-5, 41-50, N.C		No connection

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PDP-504CMX

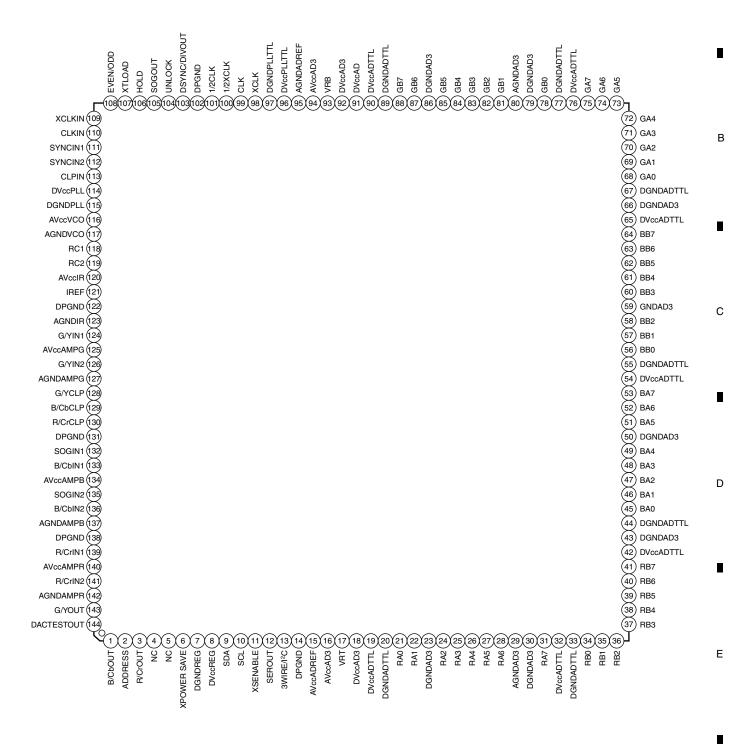
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• AD + PLL IC

Pin Arrangement (Top View)

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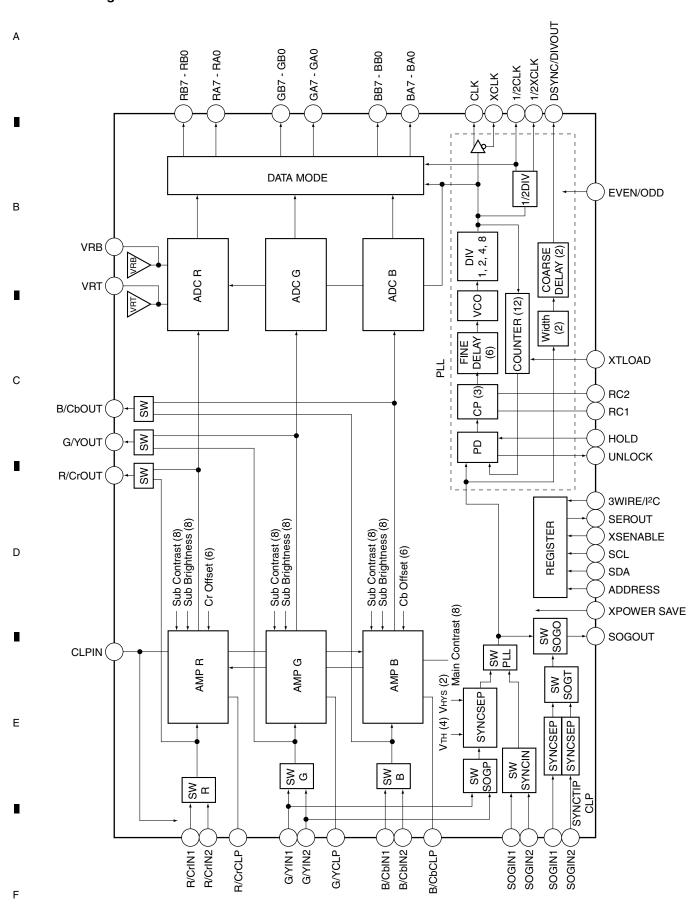
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Block Diagram



PDP-504CMX

Pin Function

No.	Symbol	I/O	Pin Function
1	B/CbOUT	0	Amplifier output signal monitor
2	ADDRESS	ı	I ² C slave address setting
3	R/CrOUT	0	Amplifier output signal monitor
4	NC	_	Not used
5	NC	_	Not used
6	XPOWER SAVE	I	Power save setting
7	DGNDREG	_	Register GND
8	DVccREG	_	Register power supply
9	SDA	ı	Control register data input
10	SCL	ı	Control register CLK input
11	XSENABLE	I	Enable signal input for 3-wire control register
12	SEROUT	0	3-wire control register data readout
13	3WIRE/I ² C	I	Selection of input between I ² C bus and 3-wire bus
15	AVccADREF	-	Reference power supply for A/D converter
16, 94	AVccAD3	-	Analog power supply for A/D converter
17	VRT	0	Top reference voltage output for A/D converter
18, 92	DVccAD3	-	Digital power supply for A/D converter
19, 32, 42, 54, 65, 76, 90	DVccADTTL	-	TTL output power supply for A/D converter
20, 33, 44, 55, 67, 77, 89	DGNDADTTL	-	TTL output GND for A/D converter
21, 22, 24-28, 31	RA0 - RA7	0	Data output for R-channel port A side
23, 30, 43, 50, 59, 66, 79, 86	DGNDAD3	-	Digital GND for A/D converter
29, 80	AGNDAD3	-	Analog GND for A/D converter
34-41	RB0 - RB7	0	Data output for R-channel port B side
45-49, 51-53	BA0 - BA7	0	Data output for B-channel port A side
56-58, 60-64	BB0 - BB7	0	Data output for B-channel port B side
68-75	GA0 - GA7	0	Data output for G-channel port A side
78, 81-85, 87, 88	GB0 - GB7	0	Data output for G-channel port B side
91	DVccAD	-	Digital power supply for A/D converter
93	VRB	0	Bottom reference voltage output for A/D converter
95	AGNDADREF	-	Reference voltage GND for A/D converter
96	DVccPLLTTL	-	TTL output power supply for PLL
97	DGNDPLLTTL	-	TTL output GND for PLL
98	XCLK	0	Inverted CLK output
99	CLK	0	CLK output
100	1/2XCLK	0	Inverted 1/2CLK output
101	1/2CLK	0	1/2CLK output
103	DSYNC/DIVOUT	0	DSYNC or DIVOUT signal output
104	UNLOCK	0	Unlock signal output
105	SOGOUT	0	Output for SYNC ON GREEN
106	HOLD	I	Input for phase comparison disable signal

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PDP-504CMX

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No.	Symbol	I/O	Pin Function
107	XTLOAD	I	Programmable counter reset setting
108	EVEN/ODD	I	Inverted pulse input of ADC sampling CLK
109	XCLKIN	I	Inverted CLK input for testing
110	CLKIN	I	CLK input for testing
111	SYNCIN1	I	Sync input 1
112	SYNCIN2	ı	Sync input 2
113	CLPIN	ı	Clamp pulse input
114	DVccPLL	_	Digital power supply for PLL
115	DGNDPLL	_	Digital GND for PLL
116	AVccVCO	_	Analog power supply for PLL VCO
117	AGNDVCO	_	Analog GND for PLL VCO
118	RC1	_	External pin for PLL loop filter
119	RC2	-	External pin for PLL loop filter
120	AVccIR	-	Analog power supply for IREF
121	IREF	ı	Current setup
123	AGNDIR	-	Analog GND for TREF
124	G/YIN1	ı	G/Y signal input 1
125	AVccAMPG	_	Power supply for G/Y amplifier block
126	G/YIN2	I	G/Y signal input 2
127	AGNDAMPG	_	GND for G/Y amplifier block
128	G/YCLP	_	Clamp capcitor for brightness
129	B/CbCLP	_	Clamp capcitor for brightness
130	R/CrCLP	_	Clamp capcitor for brightness
132	SOGIN1	I	SYNC ON GREEN signal input 1
133	B/CbIN1	I	B/Cb signal input 1
134	AVccAMPB	_	Power supply for B/Cb amplifier block
135	SOGIN2	I	SYNC ON GREEN signal input 2
136	B/CbIN2	ı	B/Cb signal input 2
137	AGNDAMPB	_	GND for B/Cb amplifier block
139	R/CrIN1	ı	R/Cr signal input 1
140	AVccAMPR	_	Power supply for R/Cr amplifier block
141	R/CrIN2	I	R/Cr signal input 2
142	AGNDAMPR	_	GND for R/Cr amplifier block
143	G/YOUT	0	Monitor pin for amplifier output signal
144	DAC TEST OUT	0	DAC testing output for amplifier block control register
14, 102, 122, 131, 138	DPGND	ı	GND

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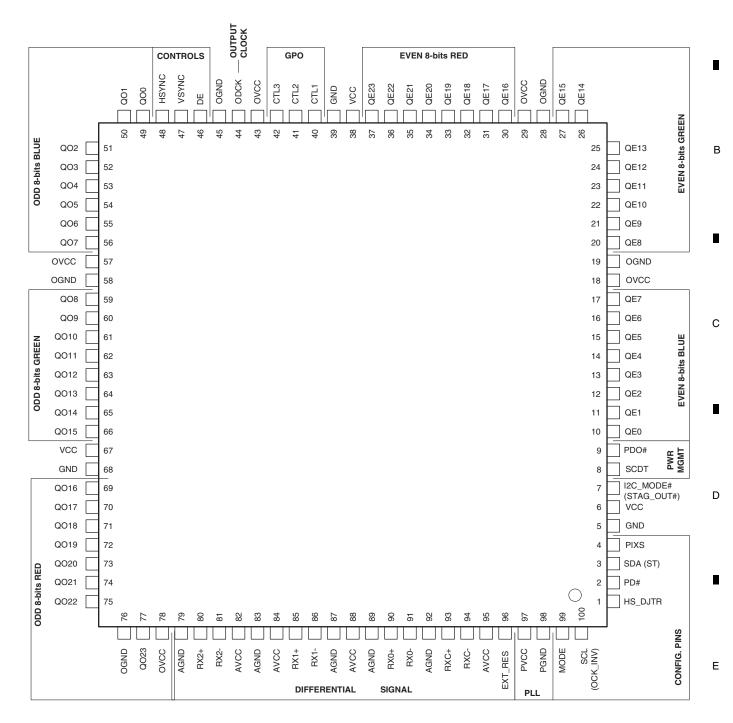
■ SII116BCTG100 (AV I/O ASSY: IC????)

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• Panel Link Receiver IC

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• Pin Arrangement (Top View)



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• Pin Function

Output Pins

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Pin Name	No.	Туре	Function			
QE23 - QE0	37-30, 27-20, 17-10	Out	Output Even Data[23:0] corresponds to 24-bit pixel data for one pixel per clock input mode and to the first 24-bit pixel data for two pixels per clock mode. Output data is synchronized with output data clock (ODCK). Refer to the TFT Panel Data Mapping section, which tabulates the relationship between the input data to the transmitter and output data from the receiver. A low level on PD# or PDO# will put the output drivers into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground.			
QO23 - QO0	77, 75-69, 66-59, 56-49	Out	Output Odd Data[23:0] corresponds to the second 24-bit pixel data for two pixels per clock mode. During one pixel per clock mode, these outputs are driven low. Output data is synchronized with output data clock (ODCK). Refer to the TFT Panel Data Mapping section, which tabulates the relationship between the input data to the transmitter and output data from the receiver. A low level on PD# or PDO# will put the output drivers into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground.			
ODCK	44	Out	Output Data Clock. This output can be inverted using the OCK_INV pin. A low level on PD# or PDO# will put the output driver into a high impedance (tri-state) mode. A weak internal pulldown device brings the output to ground.			
DE	46	Out	Output Data Enable. This signal qualifies the active data area. A HIGH level signifies active display time and a LOW level signifies blanking time. This output signal is synchronized with the output data. A low level on PD# or PDO# will put the output driver into a high impedance (tri-state) mode. A weak internal pull-down device brings the output to ground.			
HSYNC VSYNC CTL1 CTL2 CTL3	48 47 40 41 42	Out	Horizontal Sync output control signal. Vertical Sync output control signal. General output control signal 1. This output is not powered down by PDO#. General output control signal 2. General output control signal 3. A low level on PD# or PDO# will put the output drivers (except CTL1 by PDO#) into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground.			

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■ Differential Signal Data Pins

Pin Name	No.	Туре	Function
RX0+ RX0- RX1+ RX1- RX2+ RX2-	90 91 85 86 80 81	Analog	Receiver Differential Data Pins. TMDS Low Voltage Differential Signal input data pairs.
RXC+ RXC-	93 94	Analog	Receiver Differential Clock Pins. TMDS Low Voltage Differential Signal input clock pair.
EXT_RES	96	Analog	Impedance Matching Control. An external 390Ω resistor must be connected between AVCC and this pin.

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Configuration Pins

Pin Name	No.	Туре	Function				
MODE	99	In	Mode Select Pin. Used to select between drop-in strap-selected operation, or register programmable operation. To activate register-programmable operation, tie both pin 99 and p LOW. HIGH=161B (Compatible) Mode – strap selections are used to set part operation. Internal registers controlling non strap-selectable functions are reset to their default values. LOW=1161 (Programmable) Mode – I2C registers are used to program part operation.				
OCK_INV	100	ODCK output. All other output signals are unaffected be timing no matter the setting of OCK_INV pin	ODCK Polarity. A LOW level selects normal ODCK output. A HIGH level selects inverted ODCK output. All other output signals are unaffected by this pin. They will maintain the same timing no matter the setting of OCK_INV pin				
SCL	100 In		I ² C Port Clock. When pins 99 and 7 are tied LOW, pin 100 functions as an I ² C port input clock. The slave I ₂ C function does not ever try to extend cycles by pulling this pin low, so the pin remains input-only at all times. This pin accepts 3.3V signaling only; it is not 5V-tolerant.				
PIXS	4	In	Pixel Select. A LOW level indicates one pixel (up to 24-bits) per clock mode using QE[23:0]. A HIGH level indicates two pixels (up to 48-bits) per clock mode using QE[23:0] for first pixel and QO[23:0] for second pixel.				
STAG_OUT#	7 In		Staggered Output. A HIGH level selects normal simultaneous outputs on all odd and even data lines. A LOW level selects staggered output drive. This function is only available in two pixels per clock mode.				
I2C_MODE#			This pin must be tied LOW to put the receiver into I ² C mode.				
ST	0 1/0		Output Drive. A HIGH level selects HIGH output drive strength. A LOW level selects LOW output drive strength.				
SDA 3		In/Out	I ² C Port Data. When pins 99 and 7 are tied LOW, pin 3 functions as an I ² C port data I/O signal. This pin accepts 3.3V signaling only; it is not 5V-tolerant.				
HS_DJTR	1	In	HSYNC De-jitter. This pin enables/disables the HSYNC de-jitter function. To enable the HSYNC de-jitter function this pin should be HIGH. To disable the HSYNC de-jitter function this pin should be LOW.				

Pin Name	No.	Type	Function
SCDT	8	Out	Sync Detect. A HIGH level is outputted when DE is actively toggling indicating that the link is alive. A LOW level is outputted when DE is inactive, indicating the link is down. Can be connected to PDO# to power down the outputs when DE is not detected. The SCDT output itself, however, remains in the active mode at all times.
PDO#	9	ln	Output Driver Power Down (active LOW). A HIGH level indicates normal operation. A LOW level puts all the output drivers only (except SCDT and CTL1) into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground. PDO# is a sub-set of the PD# description. The chip is not in power-down mode with this pin. SCDT and CTL1 are not tri-stated by this pin.
PD#	2	ln	Power Down (active LOW). A HIGH level indicates normal operation. A LOW level indicates power down mode. During power down mode, all the output drivers are put into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground. Additionally, all analog logic is powered down, and all inputs are disabled. Driving PD# LOW disables all internal logic and outputs, including SCDT and clock detect functions; it also resets all internal programmable registers to their default states.

Power and Ground Pins

Pin Name	No.	Туре	Function
VCC	6, 38, 67	Power	Digital Core VCC, must be set to 3.3V.
GND	5, 39, 68	Ground	Digital Core GND.
ovcc	18, 29, 43, 57, 78	Power	Output VCC, must be set to 3.3V.
OGND	19, 28, 45, 58, 76	Ground	Output GND.
AVCC	82, 84, 88, 95	Power	Analog VCC must be set to 3.3V.
AGND	79, 83, 87, 89, 92	Ground	Analog GND.
PVCC	97	Power	PLL Analog VCC must be set to 3.3V.
PGND	98	Ground	PLL Analog GND.

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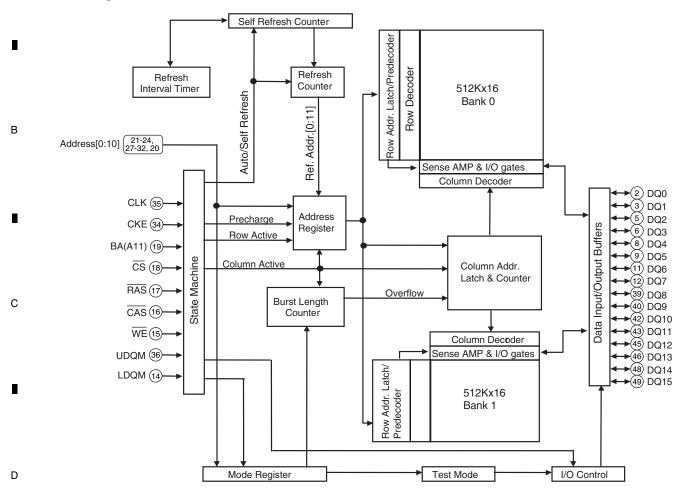
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■ HY57V161610DTC-8 (VIDEO SLOT1 ASSY : IC6106)

(VIDEO SLOT2 ASSY: IC6106)

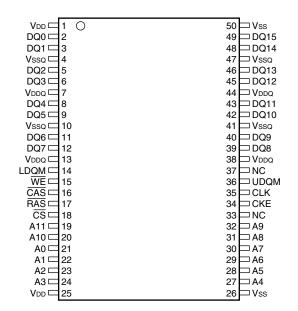
A • 16M SDRAM

Block Diagram



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Pin Arrangement



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PDP-504CMX

Pin Function

No.	Pin Name	I/O	Pin Function
1	VDD	-	Power supply
2	DQ0	I/O	Data input/output
3	DQ1	1/0	Data input/output
4	VSSQ	1/0	Ground for DQ
5	DQ2	I/O	Data input/output
6	DQ3	1/0	Data input/output
7	VDDQ	-	Power supply for DQ
8	DQ4	I/O	Data input/output
9	DQ4 DQ5	I/O	Data input/output
10	VSSQ	1/0	Ground for DQ
11	DQ6	I/O	Data input/output
12		1/0	
13	DQ7 VDDQ	1/0	Data input/output
-		_	Power supply for DQ Data input (output mode)
14	LDQM		Data input/output mask
15	/WE		Write enable
16	/CAS		Column address strobe
17	/RAS	I	Row address strobe
18	/CS	I	Chip select input
19	A11	I	Address input
20	A10	I .	Address input
21	A0	I .	Address input
22	A1	I .	Address input
23	A2	I	Address input
24	A3	I	Address input
25	VDD	_	Power supply
26	VSS	_	Ground
27	A4	 	Address input
28	A5	 	Address input
29	A6	I .	Address input
30	A7	I .	Address input
31	A8	 	Address input
32	A9	I	Address input
	NC	_	No connection
\vdash	CKE	I	Clock enable
35	CLK	I	System clock input
36	UDQM	I	Data input/output mask
37	NC	_	No connection
38	VDDQ	-	Power supply for DQ
39	DQ8	I/O	Data input/output
40	DQ9	I/O	Data input/output
41	VSSQ	-	Ground for DQ
42	DQ10	I/O	Data input/output
43	DQ11	I/O	Data input/output
44	VDDQ	_	Power supply for DQ
45	DQ12	I/O	Data input/output
46	DQ13	I/O	Data input/output
47	VSSQ	_	Ground for DQ
48	DQ14	I/O	Data input/output
49	DQ15	I/O	Data input/output
50	VSS	_	Ground

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PDP-504CMX 7

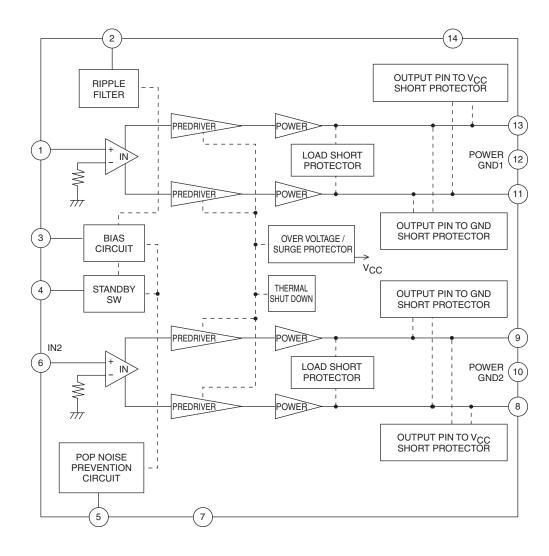
■ LA4625 (AUDIO AMP ASSY : IC5003)

• 2ch BLT AF Power Amp. IC

Block Diagram

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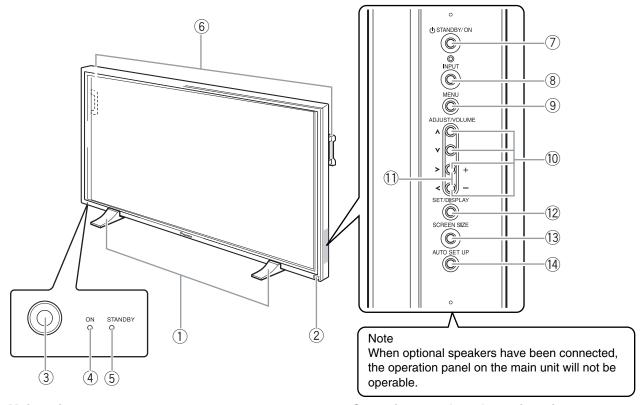
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PDP-504CMX

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■ MAIN UNIT



Main unit

1 Display stand

2 Remote control sensor

Point the remote control toward the remote sensor to operate the unit .

3 Ambient light sensor

This sensor measures the level of light inside the viewing room; it is enabled when the [ENERGY SAVE] option is set to [AUTO] .

(4) ON indicator

Lights green when the plasma display is operating. When flashing, the indicator is used to indicate error messages.

The indicator flashes green once every two seconds when the [POWER MANAGEMENT] function is operating.

(5) STANDBY indicator

Lights red when the unit is in standby mode. When flashing, the indicator is used to indicate error messages.

The plasma displays PDP-50MXE1/PDP-50MXE1-S and PDP-43MXE1/PDP-43MXE1-S utilize differing methods of handle attachment, but the handles themselves are used in the same way.

Operation panel on the main unit

⑦ STANDBY/ON button

Press to put the display in operation or standby mode.

Operation panel on the main unit

® INPUT button

Press to select the input.

9 MENU button

Press to open and close the on-screen menu.

10 ADJUST (▲ / ▼ / ► / ◀) buttons

Use these buttons to move the onscreen cursor between selection options, and to perform adjustments. Instructions for use are given with each command option onscreen.

① VOLUME (+/-) buttons

When not indicated for use in onscreen menu items, these buttons are used for adjusting the sound volume.

12 SET/DISPLAY button

Use to confirm onscreen menu selections, and to change settings.

When not indicated by onscreen menus, used to display the current set status.

13 SCREEN SIZE button

Press to select the screen size.

(14) AUTO SET UP button

When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

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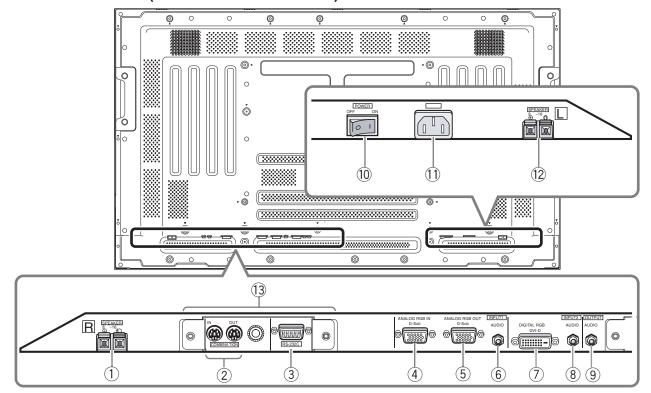
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Plasma Display Section

The plasma display is provided with 2 video input connectors, 1 video output connector, audio input/output jacks and speaker terminals.

When this video card is installed on a plasma display, an additional three sets of video input connectors are provided (total five), together with one additional video output connector (total two).

1 SPEAKER (R) terminal

For connection of an external right speaker. Connect a speaker that has an impedance of 8 -16 Ω .

D ② COMBINATION IN/OUT

Never connect any component to these connectors without first consulting your Pioneer installation technician.

These connectors are used in the factory setup.

③ RS-232C

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Never connect any component to this connector without first consulting your Pioneer installation technician. This connector is used in the factory setup.

4 ANALOG RGB IN (INPUT1) (mini D-sub 15 pin)

For connection of a personal computer (PC) or similar component. Make sure that the connection made corresponds to the format of the signal output from the connected component.

⑤ ANALOG RGB OUT (INPUT1) (mini D-sub 15 pin)

Use the ANALOG RGB OUT (INPUT1) terminal to output the video signal to an external monitor or other component.

Note: The video signal will not be output from the ANALOG RGB OUT (INPUT1) terminal when the main power of this unit is off or in standby mode.

6 AUDIO (INPUT1) (Stereo mini jack)

Use to obtain sound when INPUT1 is selected. Connect the audio output jack of components connected to INPUT1 to this unit.

7 DIGITAL RGB (INPUT2) (DVI-D jack)

Use to connect a computer.

Note: This unit does not support the display of copyguard-protected video signals.

8 AUDIO (INPUT2) (Stereo mini jack)

Use to obtain sound when INPUT2 is selected. Connect the audio output jack of components connected to INPUT2 to this unit.

9 AUDIO (OUTPUT) (Stereo mini jack)

Use to output the audio of the selected source component connected to this unit to an AV amplifier or similar component.

10 MAIN POWER switch

Use to switch the main power of the unit on and off.

11) AC IN

Use to connect a power cord to an AC outlet.

12 SPEAKER (L) terminal

For connection of an external left speaker. Connect a speaker that has an impedance of 8 -16 Ω .

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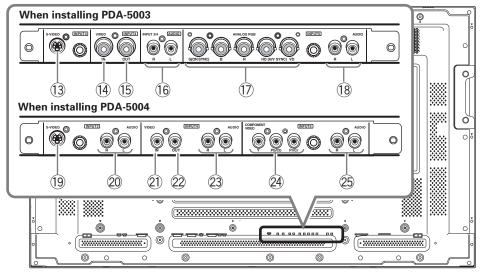
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■ CONNECTION PANEL (VIDEO CARD SECTION: PDA5003, PDA-5004)



Video Card <PDA-5003> Section

The video card is provided with 3 video input connectors, 1 video output connector, and 2 audio input connectors. Consult the pages noted in parentheses () for details regarding connections to the various jacks and connectors.

(13) S-VIDEO (INPUT3) (S-video jack)

For connection of components that have an S-video output jack such as a video deck, video camera, laser disc player, or DVD recorder).

(4) VIDEO IN (INPUT4) (BNC jack)

For connection of components that have a composite video output jack such as a video deck, video camera, laser disc player, or DVD recorder.

(5) VIDEO OUT (INPUT4) (BNC jack)

Use the VIDEO OUT (INPUT4) jack to output the video signal to an external monitor or other component. Note: The video signal will not be output from the VIDEO OUT (INPUT4) jack when the main power of this display is off or in standby mode.

16 AUDIO R/L (INPUT3/4) (RCA Pin jacks)

Use to obtain sound when INPUT3 or INPUT4 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT3 or INPUT4

Note: The left audio channel (L) jack is not compatible with monaural input sources.

① ANALOG RGB (INPUT5) (BNC jacks)

For connecting components equipped with RGB outputs jacks, such as a personal computer or external RGB decoder; or components equipped with component output jacks, such as a DVD recorder.

Make sure that the connection made corresponds to the format of the signal output from the connected component.

(8) AUDIO R/L (INPUT5) (RCA Pin jacks)

Use to obtain sound when INPUT5 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT5.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

Video Card <PDA-5004> Section

The video card is provided with 3 video input connectors, 1 video output connector, and 3 audio input connectors. Consult the pages noted in parentheses () for details regarding connections to the various jacks and connectors.

(9 S-VIDEO (INPUT3) (S-video jack)

For connection of components that have an S-video output jack such as a video deck, video camera, laser disc player, or DVD recorder.

20 AUDIO R/L (INPUT3) (RCA Pin jacks)

Use to obtain sound when INPUT3 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT3.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

② VIDEO IN (INPUT4) (RCA Pin jack)

For connection of components that have a composite video output jack such as a video deck, video camera, laser disc player, or DVD recorder.

22 VIDEO OUT (INPUT4) (RCA Pin jack)

Use the VIDEO OUT (INPUT4) jack to output the video signal to an external monitor or other component. Note: The video signal will not be output from the VIDEO OUT (INPUT4) jack when the main power of this display is off or in standby mode.

23 AUDIO R/L (INPUT4) (RCA Pin jacks)

Use to obtain sound when INPUT4 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT4.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

29 COMPONENT VIDEO (INPUT5) (RCA Pin jacks)

For connection of components that have component video output jacks such as a DVD recorder.

25 AUDIO R/L (INPUT5) (RCA Pin jacks)

Use to obtain sound when INPUT5 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT5.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

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В

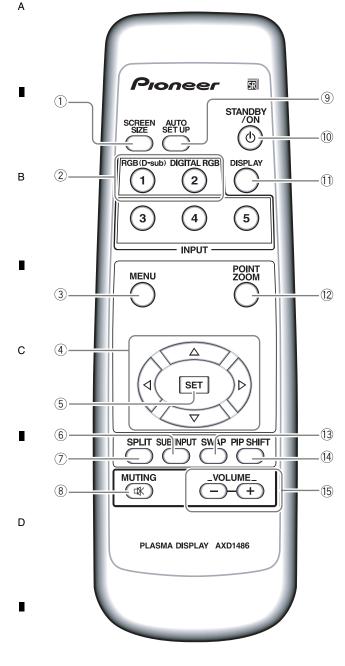
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PDP-504CMX



1) SCREEN SIZE button

Press to select the screen size.

2 INPUT buttons

Press to select the input.

3 MENU button

Press to open and close the on-screen menu.

4 ADJUST (**△** / **▼** / **►** / **◄**) buttons

Use to navigate menu screens and to adjust various settings on the unit

Usage of cursor buttons within operations is clearly indicated at the bottom the on-screen menu display.

5 SET button

Press to adjust or enter various settings on the unit.

6 SUB INPUT button

During multi-screen display, use this button to change inputs to subscreens.

(7) SPLIT button

Press to switch to multi-screen display.

® MUTING button

Press to mute the volume.

9 AUTO SET UP button

When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

10 STANDBY/ON button

Press to put the unit in operation or standby mode.

11 DISPLAY button

Press to view the unit's current input and setup mode.

12 POINT ZOOM button

Use to select and enlarge one part of the screen. SWAP button During multi-screen display, use this button to switch between main screen and subscreen.

(4) PIP SHIFT button

When using PinP mode with multi-screen display, use this button to move the position of subscreen.

15 VOLUME (+/-) buttons

Use to adjust the volume.

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PDP-504CMX

■ INSTALLATION OF THE UNIT

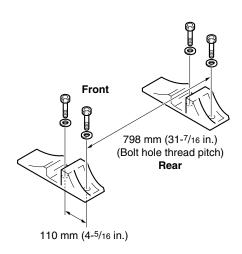
5

Installation using the supplied display stand

Be sure to fix the supplied stand to the installation surface. Use commercially available M8 bolts that are 25 mm longer than the thickness of the installation surface.

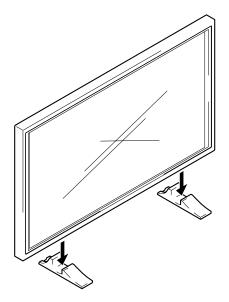
6

 Fix the supplied stand to the installation surface at each of the 4 prepared holes using commercially available M8 bolts.

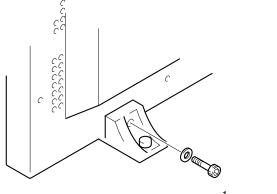


2. Set this unit in the stand.

5



3. Fix this unit using the supplied washer and bolt.



Use a 6 mm ($^{1}/_{4}$ in.) hex wrench to bolt them.

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A CAUTION

This display unit weighs at least 30 kg (67 lbs) and has little front-to-back depth, making it very unstable when stood on edge. As a result, two or more persons should cooperate when unpacking, moving, or installing the display.

Installation using the optional PIONEER stand or installation bracket

- Please be sure to request installation or mounting of this unit or the installation bracket by an installation specialist or the dealer where purchased.
- When installing, be sure to use the bolts provided with the stand or installation bracket.
- For details concerning installation, please refer to the instruction manual provided with the stand or installation bracket.

Installation using accessories other than the PIONEER stand or installation bracket (sold separately)

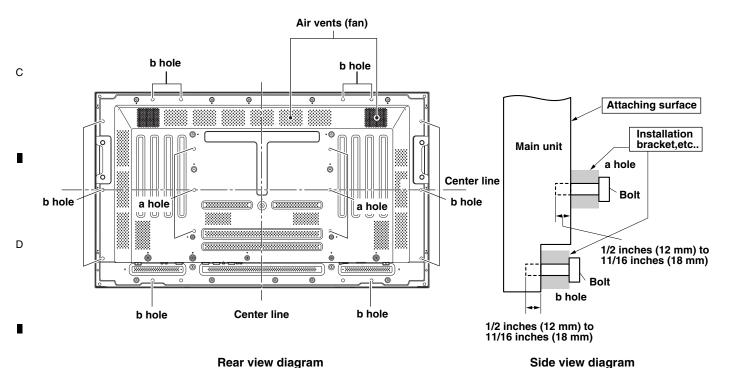
- When possible, please install using parts and accessories manufactured by PIONEER. PIONEER will not he held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.
- For custom installation, please consult the dealer where the unit was purchased, or a qualified installer.

Wall-mount installation of the unit

3

This unit has been designed with bolt holes for wall-mount installation, etc.. The installation holes that can be used are shown in the diagram below.

- Be sure to attach in 4 or more locations above and below, left and right of the center line.
- Use bolts that are long enough to be inserted 1/2 inch (12 mm) to 11/16 inch (18 mm) into the main unit from the attaching surface for both a holes and b holes.
 Refer to the side view diagram below.
- As this unit is constructed with glass, be sure to install it on a flat, unwarped surface.



E CAUTION

В

To avoid malfunction, overheating of this unit, and possible fire hazard, make sure that the vents on the main unit are not blocked when installing. Also, as hot air is expelled from the air vents, be careful of deterioration and dirt build up on rear surface wall, etc..

ACAUTION

Please be sure to use an M8 (Pitch = 1.25 mm) bolt. (Only this size bolt can be used.)

ACAUTION

Because this unit weighs about 88 lbs 3 oz (about 40 kg) and the lack of depth makes it fairly unstable, please use 2 people or more when packing, carrying or installing.

ACAUTION

This unit incorporates a thin design. To ensure safety if vibrated or shaken, please be sure to take measures to prevent the unit from tipping over.

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